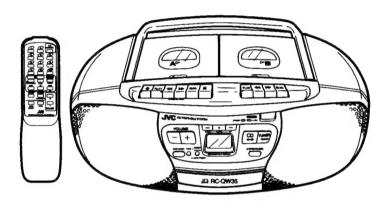
JVC

SERVICE MANUAL

CD PORTABLE SYSTEM

RC-QW35BK B/E/EN/G





RC-QW35

Ar	ea Suffix
E C	U.K. Continental Europe Northern Europe Germany

■ Self diagnosis function

This model has a convenient self-diagnosis function CD section.

Contents

	Safety Precautions	. 2
	Instructions	. 5
1.	Location of Main Parts	15
2.	Removal of Main Parts	16
3.	Troubleshooting	24
4.	Main Adjustment	31
5.	Wiring Connections	36

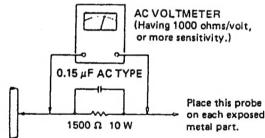
6.	Block Diagram	37
7.	Standard Schematic Diagrams	42
8.	Location of P.C. Board Parts and Parts List	46
9.	Exploded View of Enclosure Assembly	56
10.	Exploded View of Mechanism Assembly	59

11. Illustration of Packing and Parts List 63

Safety Precautios

- 1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by shading() and() on the schematic diagram and by () on the parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
- 5. Leakage current check (Electrical shock hazard testing)
 - After re assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.
 - Plug the AC line cord directly into the AC outlet, using a"Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground.

 Any leakage current must not exposeed 0.5mA AC(r.m.s.)
 - · Alternate check method
 - Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each



exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).

♦ Warning (UK only)

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintaintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

Safety Precautios

IMPORTANT FOR LASER PRODUCTS

PRECAUTIONS

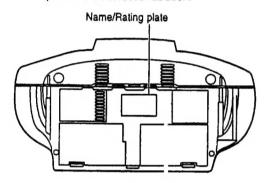
CLASS 1 LASER PRODUCT

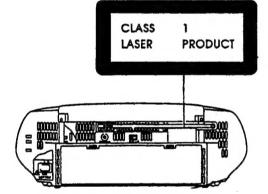
DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

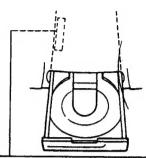
CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified

service personnel.
CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD tray is open. It is dangerous to defeat the safety

CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation







DANGER: Invisible been tion when open and AVOID DIFFECT EXPOSLIPE TO BEAM (e) ADVAPSEL: Usyrig lear stråling ved åbning, når rtedastrydere er ude telse for straling. fd

VAJANING: Osynlig leser strålning når der år åppræd och spärren är urkoppiad. Betraida ej (5)

OLD BE EZZECTIONA :ORAN alttiina näkymättömääd lasersáleilyile. Álá kalso sitessen.

ADVERSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS: Varmuuskytkimen oliessa pois päältä kun laite avataan, siellä kehittyy näkymätöbtä lasersäteilä. Älä pane itseäsi säteilyn altiiksi.

VARNING: Osynlig laserståining uppstår vid komponentens öppning när säkerhetsbrytaren är frånslagen.

ADVARSEL: Usynling lasersträling ved åpning når sikkerhetsbryteren er ude af funktion Unngå utsettelse for stråling.





The lightning flash with arrowhead symbol, within an equilateral tri-angle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT (In the United Kingdom) Mains Supply (AC 230 V ~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer

BE SURE to replace the fuse only with an identical approved

type, as originally fitted and to replace the fuse cover.
If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:



As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT-CONSULT A COMPETENT ELECTRICIAN.

■ Safety precaution about RC-QW35

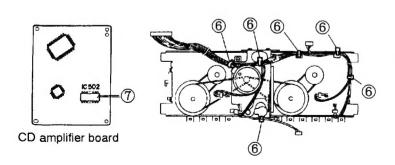
 Check the power transformer marking, and check that the power transformer is securely installed.

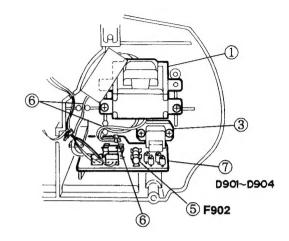
Parts number: V-2409T-B

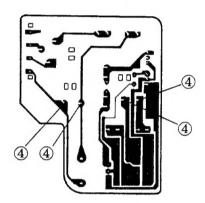
Check the power cord marking, and check that the powr cord is not externally damaged.

	B VERSION	E/G/GI/EN VERSION	
Cord mark:	BS6500	\triangleleft VDE \triangleright	
Attachment plug:	ASTABEF179	KP-419C	
Connect plug:	M1250A	KS-15E	

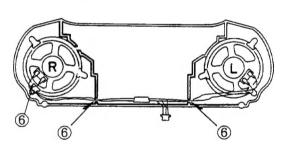
- Check the AC socket marking, and check that the AC socket is tightly fixed in the P.C.board when installed. HSC1466.
- 4. Check that there is sufficient space for the primary and adjacent secondary terminal parts on the P.C.board (There should be no protrusions of solder or terminal wires.)
- 5. Check the rated fuse display, and check that the fuse is secure in the fuse holder. F902 P: T2.5 A / 250 V
- Check that the wires are neatly arranged so that they do not interfere with sections involving power, moving parts, heat generation, or those with sharp-edged parts.
- 7. The following parts are important for safety in such operations as those involved with heat generation. Use the specified parts and check original shape. Heat generating parts should be suspended above the P.C.board not fallen down. Parts marked with ______ are safety control parts. [IC302.] [HEAT SINK] [D901] [D902] [D903] [D904] [Q901] [Q908] [Q906] [IC502, R122, R222,

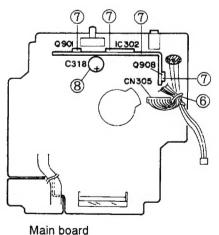






Power supply board











RC-QW35/QS

CD PORTABLE SYSTEM

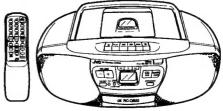
RC-QW35/QS22 B

UVC NOTOR COMPANY OF JAPAN, LIMITED





RC-QW35



RC-QS22



INSTRUCTIONS

Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the

CONTENTS Features Safety precautions Handling precautions Power supply Names of parts and their functions Remote control unit Switching the power on/off Volume and tone buttons Concerning compact discs 10 Playing compact discs Cassette tape . Cassette playback 13 Relay playback (RC-QW35 only) 13 Radio reception . .14 Recording 16 Dubbing (synchro start dubbing) (RC-QW35 only) 17 Maintenance . 18 Troubleshooting 19 Specifications 19

CAUTION "TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR RACK) NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



The lightning flash with arrowhead symbol, The igniting hash with arrowned symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and mainte-nance (servicing) instructions in the literature accompanying the appliance.

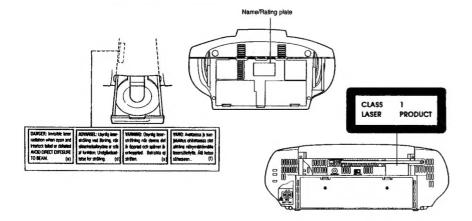
IMPORTANT FOR LASER PRODUCTS

- CLASS 1 LASER PRODUCT
- DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
- CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD tray is open. It is
- dangerous to defeat the safety switches.

 CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

REPRODUCTION OF LABELS AND THEIR LOCATION

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



IMPORTANT (In the United Kingdom) Mains Supply (AC 230 V \sim , 50 Hz only)

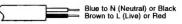
DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your

DESIGNE to replace the fuse only with an identical approved type, as originally fitted and to replace the fuse cover. If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-vellow

The wires in the mains lead on this product are coloured in accordance with the following code:



As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT-CONSULT A COMPETENT ELECTRICIAN.

FEATURES

- 1. One-touch operation (COMPU PLAY) (only when AC power is used)
 - When a source button (CD, tape, or tuner) is pressed. the unit's power is turned on and initiates playback even when the power is set to STANDBY.
- 2. 24-key remote control unit opens and closes the motordriven CD tray and operates the usual CD and tuner
- The remote control controls power ON/OFF switching, volume control, tone control and Bass Boost ON/OFF switching.
 3. Double cassette mechanism (Deck A for recording and
- playback, Deck B for playback) (RC-QW35)
 Synchro-start dubbing function.
 Relay playback (from Deck B to Deck A).
 Single cassette mechanism (RC-QS22)
- 2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM) preset capability
 - Seek/manual tuning.
- Auto preset tuning.
 Bass Boost button for low-frequency sound reproduc-
- 6. Best Cut switch

SAFETY PRECAUTIONS

Prevention of Electric Shocks, Fire Hazards and Damage

- 1. Even when the POWER button is set to STANDBY, a very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.
- Do not handle the power cord with wet hands.
- When unplugging from the wall outlet, always grasp and pull the plug, not the power cord. Consult your nearest dealer when damage, disconnection, 3.
- or contact failure is found with the cord.
- Do not bend the cord sharply, or pull or twist it. Do not modify the power cord in any manner.
- Do not remove screws to disassemble the unit and do not touch anything inside the unit to avoid accidents.
- Do not insert any metallic objects into the unit.
 Unplug the power cord when there is a possibility of
- lightning. 10. If water gets inside the unit, unplug the power cord from the
- outlet and consult your dealer. 11. Do not block the ventilation holes of the unit so that heat can
- Do not install the unit in a badly ventilated place.
- 12. Since the RC-QW35/QS22 uses a motor-driven CD tray, make sure your hand or other object does not obstruct tray movement.

Power button

When the power cord is connected to a household AC outlet. the power indicator is lit red, indicating STANDBY mode (this indicator does not light when DC power is supplied). When the power is switched on, the indicator turns green showing that the power is on (this indicator lights with both AC and DC power supplies).

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control, or to back up the memory of the microprocessor, even when the POWER button is set to STANDBY.

Do not use this unit in direct sunlight or leave the unit in closed automobiles (or yachts, etc.) where it would be exposed to high temperatures above 40°C.

Avoid installing in the following places. Where it could be subject to vibrations,

- Where it is excessively humid, such as in a bathroom. Where it could be magnetized by a magnet or speaker.
- 2. Pay attention to dust.

Be sure to close the CD tray so that dust does not collect on

3. Condensation

- In the following cases, condensation may occur in the unit, in which case the unit may not operate correctly.

 In a room where a heater has just been switched on.
- In a place where there is smoke or high humidity.
- When the unit is moved directly from a cold to a warm

In these cases, set the POWER button to ON and wait 1 or 2 hours before use.

4. Volume setting

Compact discs produce very little noise compared with analog records. When the volume control of an amplifier is adjusted by listening to the noise as is done with analog records, the speakers could be damaged by the sudden increase of output when the music starts. Therefore, turn down the volume before starting and adjust as required while playing a CD.

Safety mechanism

- This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the disc tray is open, the laser beam stops automatically.
- Do not place cassette tapes, etc. near the speakers. Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be
- Keep this unit away from your TV.
- When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV, If this does not correct the situation, avoid using this unit when the TV is turned on.
- Cleaning the cabinet
- If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as these could damage the surface
- When listening with headphones

 Do not listen at high volumes as it could damage your hearing. For safety, do not drive while listening to this unit.

10. Carrying handle

Do not raise or lower the carrying handle with the telescopic antenna extended, to avoid damaging the antenna. Place the carrying handle so that it does not interfere with opera-



POWER SUPPLY

A. Operation on household AC

Connect the AC power cord.

- 1. ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT. REMOVE BATTERIES WHEN USING THE POWER CORD.
- 2. BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

B. Operation on batteries

- Loading batteries
 Open the battery cover by pulling it toward you while pressing the sections marked by the arrows.
 Insert seven "R20/D (13F)" size batteries as shown in the
- - Be careful to insert the batteries with the @ and @ terminals positioned correctly
- 3. Replace the cover.



When the tape speed or output sound decreases, or CD playback is intermittent, replace all batteries with fresh ones. When making an important recording, use new batteries (preferably alkaline batteries with a longer service life) to avoid any possible failure.

For better battery usage

For better battery usage

Continuous operation of the unit causes the battery power to be consumed quicker than noncontinuous operation Operation of the unit in a cold place causes the battery power to be consumed more quickly than in a warm place.

- WHEN NOT USING THE UNIT FOR A LONG TIME (MORE THAN TWO WEEKS) OR WHEN ALWAYS USING HOUSHOLD AC, REMOVE THE BATTERIES TO AVOID A MALFUNCTION OR DAMAGE TO THE UNIT.
- WHEN THE JVC POWER CORD PROVIDED WITH THIS UNIT IS CONNECTED. THE POWER IS AUTOMATI-UNIT IS CUMEDIED, THE FOWER IS AUTOMATE CALLY SWITCHED FROM THE BATTERIES TO THE HOUSEHOLD AC EVEN WHEN THE BATTERIES ARE LOADED. HOWEVER, REMOVE THE BATTERIES WHEN USING THE POWER CORD.

CAUTIONS WHEN USING BATTERIES:

When batteries are used incorrectly, it may result in the teakage of chemicals from the batteries or they may explode. The following care should be taken;

- Check that the positive ⊕ and negative ⊝ terminals of the batteries are positioned correctly and load them as shown in the diagram.
- Do not mix new and old batteries together, or mix
- different types of batteries.

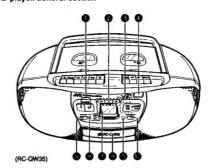
 Do not try to recharge non-rechargeable batteries.

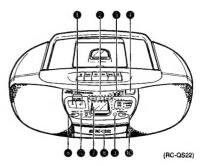
 Remove the batteries when the unit is not to be used for an extended period of time.

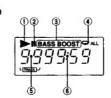
If chemicals from the batteries come in contact with your skin, wash them off immediately with water. If chemicals leak onto the unit, clean the unit completely.

NAMES OF PARTS AND THEIR FUNCTIONS

CD player/General section







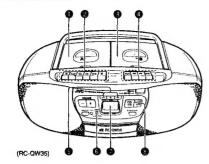
- **VOLUME** buttons CD operation buttons Search buttons (| >>) Play/pause button (CD/⊳III)

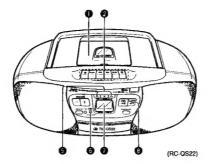
 ■ POWER indicators
- GREEN: POWER ON RED: STANDBY
- **POWER** button BASS BOOST button TONE button
 - Display window

 ① Playback indicator (►)
- Pause indicator (18)
 BASS BOOST indicator (18)
 Repeat playback indicator (19)
 Track number display
- Playback time display CD tray
- Remote sensor section

CD tray open/close button (a OPEN/CLOSE)

Deck/Tuner section









Cassette holder (Deck A) (RC-QW35) Cassette holder (RC-QS22)

Cassette operation buttons (from left to right)

REC: Press this button with PLAY/TAPE button to

PLAY/TAPE:

start recording.
Press to play the tape.
Press to rewind the tape rapidly. Press to wind the tape forward rapidly.

STOP/EJECT: Press to stop the tape. Pressing this button when the tape has stopped opens the cassette holder.

BEPAUSE : Press to stop the tape momentarily. Press

Press to stop the tape momentarily, Press gagain to release the pause mode.

Cassette holder (Deck B) (RC-QW35)

Cassette operation buttons (from left to right) (RC-QW35)

PLAYTAPE: Press to play the tape.

→ : Press to rewind the tape rapidly.

Press to wind the tape forward rapidly.

STOP/EJECT: Press to stop the tape. Pressing this button when the tape has stopped opens the

cassette holder.
TUNING buttons (UP/DOWN)
PRESET TUNING (•) button
AUTO PRESET (—) button

Display window

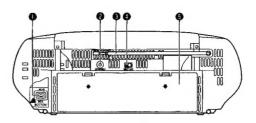
1) Tape mode display
2) Band indicator (FM/AM)
3) Radio frequency display
Preset station display
4 STEREO indicator

MONO indicator

MONO indicator

TUNER (FM/AM) button Press to select TUNER mode. Press to select the band (FM/AM).

Rear panel



AC IN (AC input) jack Headphones jack (PHONES) (3.5 mm dia. stereo mini) Connect headphones (with impedance 16 Ω – 1 k Ω) to this jack. The speakers are automatically switched off when the headphones are connected.

Telescopic antenna
BEAT CUT switch
Battery compartment cover

REMOTE CONTROL UNIT

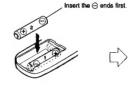
Preparation before use

- Installing batteries in the remote control unit
 Remove the battery cover from the back of the remote control unit.
- Insert two "R6/AA (15F)" size batteries.
 Insert the batteries with the ⊕ and ⊕ terminals matching
- the indication inside the battery compartment.
- 3. Replace the cover.

Battery replacement When the remote control operation becomes unstable or the distance from which remote control is possible becomes shorter, replace the batteries with new ones.











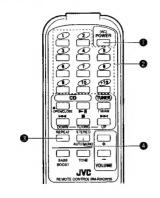
Using the remote control unit

To use the remote control unit, point it at the remote sensor section and press the buttons gently and firmly. Remote control operation is possible within about 7 m (approx. 23 ft). However, since the remote control range is less when the unit is used at an angle, use directly in front of the remote sensor section, as far much oossible.

Do not expose the remote sensor section to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the remote sensor section and theremote control unit.

The following operations can be performed using the remote control unit.

Check the functions of the operation buttons carefully and operate them correctly.



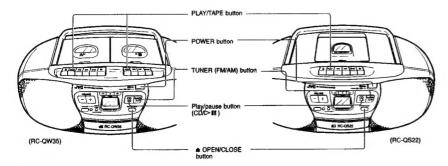
POWER (AC) button

- When power is supplied from the batteries, even when the button is pressed, the RC-QW35/QS22 will not be switched on. Switch on the POWER button of the main
- unit first, then perform operations.

 Track (tune) number buttons (No. 1 to No. 10, +10)
 Preset station buttons (No. 1 to No. 10, +10)
- CD operation
 REPEAT : Repeat playback button
 TUNER operation
- AUTO/MONO: To select FM mode
- Buttons without explanation function identically to their respective buttons on the main unit.

When running the main unit on batteries, operate after switching on the main unit POWER button.

SWITCHING THE POWER ON/OFF



Switching the power on/off

· Switching on:



The green indicator lights.

· Switching off:



The red indicator lights. (The indicator does not light when DC power is supplied.)

COMPU PLAY (only when AC power is used)

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

			Function mode	Operations	
	CD ⊳«		CD	When this button is pressed with a CD loaded, CD playback begins.	
(RC-QW35)	Deck A or Deck B	PLÅY	TAPE	When this button is pressed with a tape loaded, tape playback begins.	
(RC-QS22)	PLAY				
	TUNER FM/AM		TUNER	When this button is pressed, the tuner is engaged.	

When the CD tray Open/close (a OPEN/CLOSE) button is pressed, the source sound does not switch over, the CD tray can open or close.

- When switching off the power, be sure to press the POWER button. (When the POWER is switched off with the CD tray) open, the CD tray is closed and then the power is switched off.)
- Position the front panel away from you when carrying this unit to avoid accidentally pressing the POWER button.

VOLUME AND TONE BUTTONS

VOLUME buttons

+: Use to increase the volume.
-: Use to decrease the volume.
(control range from VOL 0 to VOL 25.)



TONE button

To set the tone level, press this button and adjust using the VOLUME buttons. The level setting ranges are from -6 to 6.



RC-QW35BKB/E/EN/G

CONCERNING COMPACT DISCS

Since dirty, damaged and warped discs may damage the unit, care should be taken of the following:

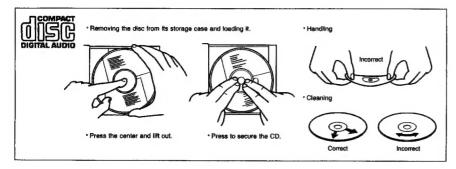
1. Usable compact discs with the mark shown.

- 2. Notes on handling discs
- Do not touch the reflective recorded surface. Do not stick anything to or write anything on the label
- Do not bend compact discs

- Storage
 After removing a disc from the unit, be sure to put it back
- Do not expose discs to direct sunlight, high tempera-tures from a heater, etc., high humidity, or dust.

 Cleaning discs
 Before loading a disc, wipe off any dust, dirt or fingerprints with a soft cloth. Discs should be cleaned by wiping radially, from the center to the edge.

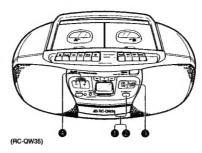
Never use thinner, benzine, record cleaner or antistatic



PLAYING COMPACT DISCS

Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

Operate in the order shown.



- Press to open the CD tray. (The power is switched ON when AC power is supplied.)

 When battery power is used, switch on the POWER button first, then perform operations.

 Load a disc with the label side facing up. Press to close the CD tray. (The tray can be closed by pressing the CD/c>#I

8-cm compact discs can be used in this unit without an adapter.

When the CD tray is closed by pressing the CD/I> 11 button, the CD starts playing as soon as the tray is closed.

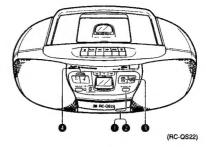
To stop play

· To stop in the middle of a disc During playback, press the m/clear button to stop play.





. The total number of tracks (tunes) and total playing time are displayed.



To stop a disc temporarily
Press the CD/> II button to stop play temporarily. When
pressed again, play resumes from the point where it was

Notes:

- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down. In such a case, check the disc and insert again after cleaning
- the disc or turning it over.

 When a CD is not loaded in the tray or when "access" is displayed, the CD tray opens when the CD/⊳III button is



- Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).
- After playback, unload the diec and close the CD tray. If mistracking occurs during play, lower the volume. Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

Skip playback

During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

To listen to the next tune ...
Press the ▶⇒button once to skip to the beginning of the next

To listen to the previous tune ...

Press the dutton to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.

Search playback (to locate the required position on the

disc)
The required position can be located using fast-forward or reverse search while playing a disc.



- · Hold down the button; search play starts slowly and then
- gradually increases in speed.
 Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located

Direct access playback (using the remote control)

- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the CD ▶■■ button.
- ress the button to set to the CD mode
- Designate the required tune using the track number buttons.

 To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) numbers.
- To designate tune number 11 or higher, press the +10 button the required number of times, then the track number button, (Example: To designate the 20th tune, press the +10 button once, then press track number button 10.)
- +10 button:

Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

· To skip to another tune during play When the required track number buttons is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

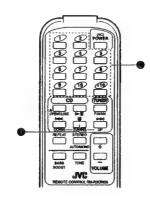
Repeat play (using the remote control)

Press the REPEAT button before or during play. A single tune or all the tunes can be repeated.

Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button in pressed, the mode will change from a single tune (), to ill the tunes (ALL), to the clear mode, in this order



- Repeat playback of a single tune (<)
 The tune being played back will be heard repeatedly.
- Repeat playback of all tunes (<= ALL)
 When playing back an entire disc, all tunes will be heard



CASSETTE TAPE

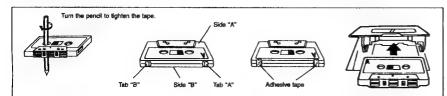
12

- 1. Loose tape may cause trouble. With a pencil, gently tighten
- the tape as shown.

 2. To prevent recordings from being erased accidentally, remove the tab(s) with a screwdriver. Reseal the slots with adhesive tape to erase and re-record after the tabs have been broken off.

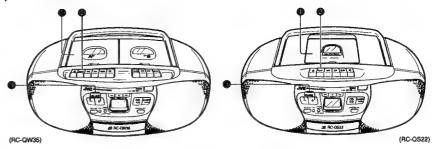
- Cassette loading

 1. Press the w/a STOP/EJECT button to open the cassette
- Load a cassette as shown
- Close the cassette holder by pressing it gently. Listen for the click that tells you that you've closed the holder securely.



CASSETTE PLAYBACK

Operate in the order shown.



Load a cassette tape.
Press to start playback. (The power is switched on, TAPE mode is engaged and tape playback starts.)
When battery power is used, switch on the POWER button first, then perform operations.

Playback in Deck B (RC-QW35 only)
The previous procedures ● also apply to Deck B when a cassette is loaded in Deck B. When Decks A and B are simultaneously set to the play mode, only the playback sound of Deck B is heard.

- When the power is turned off while the tape is still running, cassette operation buttons which are depressed do not return to the original positions.

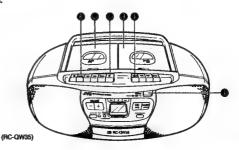
 Press the BVA STOP/EJECT button to stop the tape running.
- before turning off the power.

 2. Avoid operating the ▶ or ◄ button on the deck during playback of the other deck. (RC-QW35)

RELAY PLAYBACK (RC-QW35 ONLY)

(From Deck B to Deck A)

Operate in the order shown.



- Set the POWER button to ON. Load a cassette Load a cassette Press the PLAY/TAPE button on Deck B.
- Press the INPAUSE button.
 Press the PLAY/TAPE button on Deck A.

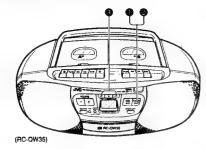
When Deck B stops, Deck A's pause mode will be released and it will start playback. When Deck A stops automatically, relay playback will be released.

RADIO RECEPTION

12

(No. 1972)

Operate in the order shown.





 Press the TUNER (FM/AM) button.
 The power is switched on and a band and radio frequency will be shown in the display.

When battery power is used, switch on the POWER

button first, then perform operations.

Select the band (FM or AM).

Tune to the required station.

STEREO AUTO/MONO button (using the remote controi)

Auto mode:

Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when the FM stereo broadcast is received.

Set to this position when FM stereo reception is noisy. When another station is tuned to in mono mode, the unit automatically enters Auto mode.

Seek tuning

Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

Manual tuning

Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 50 kHz for FM and 9 kHz for AM.



Notes:

When seek tuning to the required station is not possible

(RC-QS22)

when seek uning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning. When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER (FM/AM) button is pressed, the same station will be heard.

Auto preset tuning

This function scans the current band (FM or AM), detecting

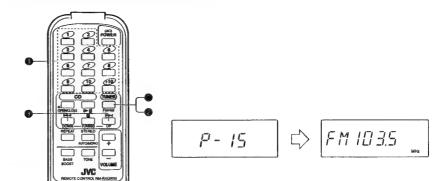
requencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.

Press the AUTO PRESET (—) button for more than 2 seconds. The frequencies of stations broadcasting signals can be preset automatically in the order of increasing frequency (15 stations in each band (FM and AM).

The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.

Presetting stations (using the remote control unit)

15 stations in each band (FM and AM) can be preset as follows: Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")



Press the TUNER (FM/AM) button. Select the FM band using the TUNER (FM/AM) button. Tune to the required station.

Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)

Repeat the above procedure for each of the other stations, using a different preset button each time.
Repeat the above procedure for the AM band.

To change preset stations
Perform step above after tuning to the required station.

Notes:

The previous preset station is erased when a new station is set as the new station's frequency replaces the previous

frequency in memory.

When listening to an AM broadcast, noise may be heard if the remote control is used.

All preset stations will be erased when a power failure occurs for more than 48 hours or the power cord is unplugged for more than 48 hours. In such cases, preset the stations again.

Preset tuning

. The stations must be preset before this operation can be performed.

(Using the controls of the main unit)

Press the TUNER (FM/AM) button.
 Select the band (FM or AM) using the TUNER (FM/AM)

3 Press the PRESET TUNING (•) button to select the required preset station.

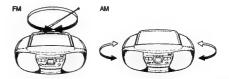
(Using the remote control unit)

 Press the TUNER (FM/AM) button.
 Select the band (FM or AM) using the TUNER (FM/AM) button.

3 Press the required preset station buttons (No. 1-No. 10, +10).

The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas

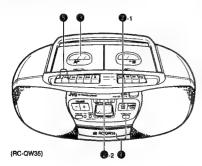


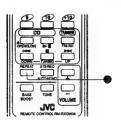
The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb AM

- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnec-
- · Check that the safety tab on the cassette tape is not broken
- To avoid maifunction, do not perform operations on deck B when recording. (RC-QW35)

Synchronized recording with the CD player
In this system, the CD player starts playback when the cassette deck enters the recording mode.

Operate in the order shown.





74 F-1-1-1-1 ZZ (RC-QS22)

This unit has recording/playback characteristics suitable for normal tapes. Normal tapes have different characteristics from CrO₂ and metal tapes.

- Load a disc and close the CD trav. Set CD mode.
- Load m cassette in the deck with side A facing up.
- (Wind past the leader tape before starting recording.)
 Set repeat mode to an appropriate position if needed. (\subset or
- □ REC button with the PLAY/TAPE button; synchronized recording will start.
- Non-recorded sections of approx. 4 seconds are automati-
- when the tape reaches the end first, the CD player stops automatically; when the CD player stops first, the tape continues running. In this case, press the

 **A STOP/EJECT button to stop the tape.
- When automatic spacing between tunes is not required ...
 Perform the following after finishing the previous operation (⊕ to ⑤).

 ① Press the CD/t>te button of the CD player twice.
- The CD player enters the pause mode.

 ② Press the REC and PLAY/TAPE buttons simulta-

Now, the CD player starts playback simultaneously.

Notes:

Note:

- During CD synchro recording, the CD/⊳III and SEARCH (I⊸II) buttons do not function.
- During CD synchro recording, do not perform operations on Deck B. (RC-QW35 only)

It should be noted that it may be unlawful to re-record it should be noted that it may be unlawful to fer-ecord pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

Recording from the radio

Operate in the order shown.





- Load a cassette with side A facing up.
 (Wind past the leader tape before starting recording.)
 Press the TUNER (FM/AM) button. Tune to the required
- Press the REC button with the PLAY/TAPE button.
- To stop recording temporarily, press the #IPAUSE button. To resume recording press the #IPAUSE button again.

When recording from the radio, do not perform operations on Deck B. (RC-QW35 only)



(RC-QS22)

BEAT CUT switch

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast. In such a case, set this button after setting the deck to record mode so that the beats are eliminated. Normally set this switch to "NORM-1".

Erasing

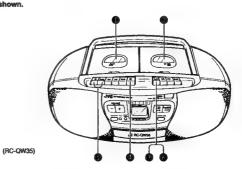
When recording on a pre-recorded tape, the previous recording automatically erased and only the new material can be heard when the tape is played.

To erase a tape without making a new recording ...
Press the PLAY/TAPE button of the deck to set to the TAPE
mode and press the • REC and PLAY/TAPE buttons together
after pressing the avaSTOP/EJECT button.

DUBBING (SYNCHRO START DUBBING) (RC-QW35 ONLY)

Normal speed dubbing can be done from Deck B to Deck A.

Operate in the order shown.



- Load a cassette. (Refer to the note on page 16.)
 Load a pre-recorded cassette.
 Lightly press the PLAY/TAPE button to set to the TAPE
 mode. (The button should not be locked.)
- Press the IIIPAUSE button.

 Press the IIPAUSE button with the PLAY/TAPE button.
- (Record-pause mode.)
 Press the PLAY/TAPE button. (Synchronized dubbing will

MAINTENANCE

Cleaning is important!
When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty ...
sound quality deteriorates.
the output sound level drops.

the previous sound ever drops.

the previous sound is not completely erased.

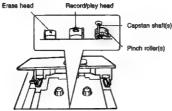
recording is not performed satisfactorily.

Because of this, you should clean the heads, etc. every 10 hours of use, so that perfect recording is possible.

Cleaning the heads, capstan and pinch roller

Open the cassette holder. Clean the heads, pinch roller and capstan. For effective cleaning, use a cleaning kit available from an audio After cleaning, be sure that the cleaning fluid has dried com-

Record/play head



Cautions:

- Cautions:

 1. Keep magnets and metallic objects away from the head. If
 the head becomes magnetized, noise will increase and the
 tone will deteriorate. Demagnetize the head every
 20–30 hours of use with a head eraser (available from an
 audio store). (When demagnetizing the head, the POWER
 button should be set to STANDBY).
 - As the erase head of this unit is of magnetic type, do not demagnetize it.
- Do not use anything other than alcohol for cleaning. Thinner and benzine will damage the rubber pinch roller.

TROUBLESHOOTING

What appears to be trouble is not always serious. Make

- 1. Power cannot be turned on.
- Is the power cord unplugged?
 No sound from the speakers.
 Are headphones connected?
- · CD Player Section
- 3. The CD player does not play.

- Cassette Deck Section
- 5. Playback sound is at a very low level.
- Is the head dirty?
 The REC button does not function.
- Have the safety tabs of the cassette been broken off?
- Tuner Section
- 7. Reception is noisy.
 * Try adjusting the antenna.
- Bemote Control
- 8. Remote control in impossible.
- Are the batteries in the remote control exhausted?
 Is the remote sensor section exposed to bright light (direct sunlight, etc.)?

Note: Before making an important recording, be sure to make a test recording first to check that the deck, etc. is working correctly.

SPECIFICATIONS

Compact disc player section

: Compact disc player : Non-contact optical pickup Type Signal detection

Number of : 2 channels

channels : 20 Hz - 20,000 Hz Frequency range

Signal-to-noise : 90 dB

Wow & flutter

: Less than measurable limit

Radio section

: FM: 87.5 - 108 MHz AM: 522 - 1,629 kHz Frequency ranges Telescopic antenna for FM Antennas Ferrite core antenna for AM

Tape deck section

: 4-track 2-channel stereo : Electronic governor DC motor for cap-Track system Motor

Heads (RC-QW35)

Deck A; Hard permailoy head for

recording/playback, Magnetic head for

erasure Deck B; Hard permalloy head for play-

Deck b, hard permandy head for pay back (RC-QS22) Hard permalloy head for recording/ playback, Magnetic head for erasure : 80 – 12,500 Hz

Frequency response

Wow and flutter

: 0.15% (WRMS) : Approx. 120 sec (C-60 cassette) Fast wind time

General

Speaker 10 cm x 2

Power output

Max. 10 W (5 W + 5 W) at 3 Ω 8 W (4 W + 4 W) at 3 Ω (10% THD) Headphones (0 – 20 mW/ch, 32 Ω) Output jacks (matching impedance 16 Ω – 1 kΩ) : AC 230 V, 50 Hz

Power supply

DC 10.5 V ("R20/D (13F)" cell x 7) 13 W (with POWER button ON) 3 W (with POWER button STANDBY) 450 (W) x 165 (H) x 250 (D) mm Power consumption

Dimensions

Weight

including knobs (RC-QW35) Approx. 4.9 kg with batteries Aporox. 4.2 kg without batteries (RC-QS22)

Approx. 4.6 kg with batteries
Approx. 3.9 kg without batteries
AC power cord x 1
Remote control unit (RM-RXQW35) x 1
"R6(AA (15F)" batteries x 2 (for the re-Accessories provided

mote control

Design and specifications are subject to change without notice.

1 Location of Main Parts

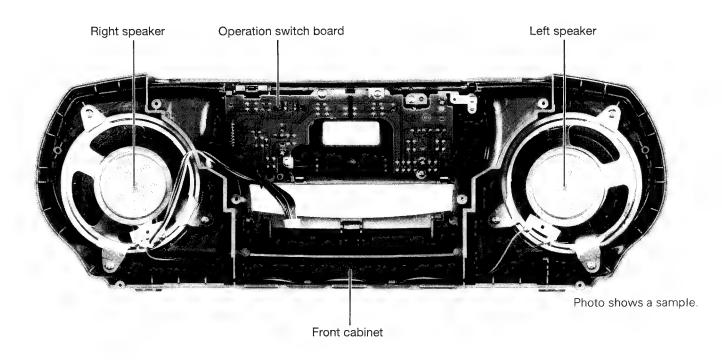


Fig. 1 – 1

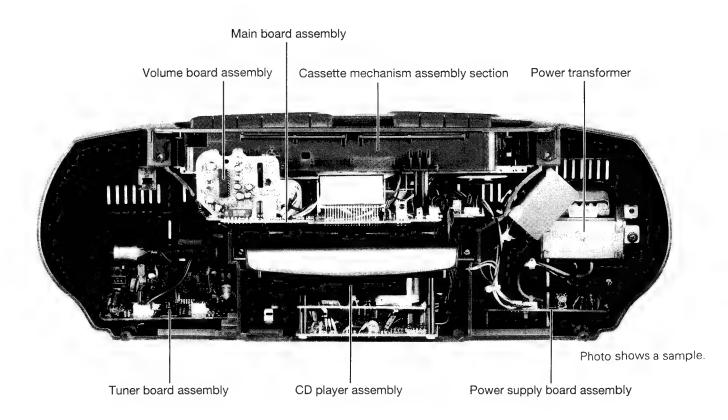
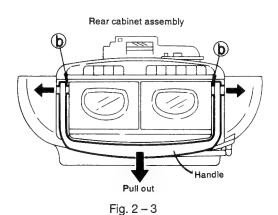


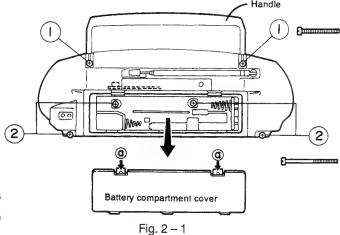
Fig. 1 – 2

2 Removal of Main Parts

◆ Removing the front and rear cabinet assemblies (Figs. 2-1 to 2-4)

- At the rear of the main unit, press the two claws (a) of the battery compartment cover downward to remove the battery cover (Fig. 2-1).
- Remove the two handle mounting screws ① and the four rear cabinet mounting screws ②. Then remove the front ② and rear cabinet assemblies (Fig. 2-1).
- 3. Remove the speaker harness coming from the front cabinet assembly and the operation switch board harness connected to the CN704 and CN309 connectors on the main PCB (Fig. 2 – 2).
- 4. For removing the handle and top cover, extend the rear cabinet outwards (as indicated by the lateral arrows) and it is disengaged from the right and left fittings (b). Then, the handle can be removed in the direction of the arrow (rearwards).





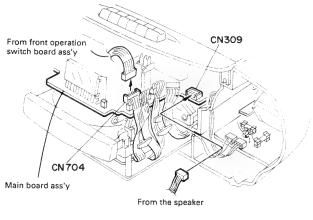
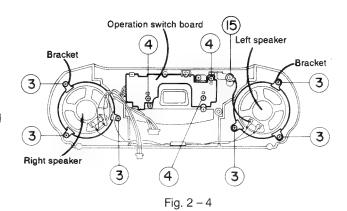


Fig. 2-2

◆ Removing the speakers and the operation switch PCB (Fig. 2 – 4)

- Remove the three right speaker mounting screws ③ and the speaker brackets. (Remove screws for the left speaker as well.)
- 2. Remove the three screws ④ retaining the switch board mounting screws.
- 3. Remove the one screw (5) retaining the speaker earth wire.



♦ Removing the tuner PCB (Fig. 2 – 5)

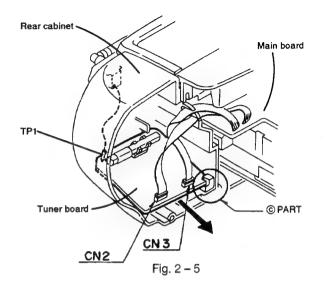
- 1. Remove connectors CN2 and CN3 on the tuner board.
- 2. Remove the antenna wire from TP1.
- Disengage the board from the fitting of part © on the rear cabinet (in the direction shown with the arrow) and pull it out.

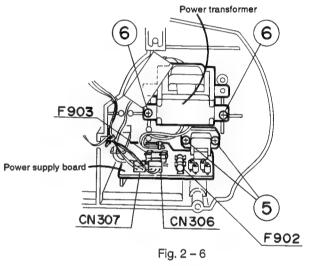
◆ Removing the power transformer and the power supply board (Fig. 2 – 6)

- 1. Remove the two screws ⑤ securing the AC terminal.
- Disconnect the two connectors (CN306 and CN307) on the power supply board.
- 3. Remove the two screws ⑥ securing the power transformer.
- 4. Pull the power supply board toward you and remove it together with the power transformer.

◆ Removing the volume PCB (Fig. 2 – 7)

- 1. Remove the screw ⑦ securing the volume board
- 2. Disconnect the connector CN310 from main board.





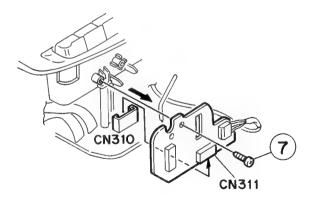
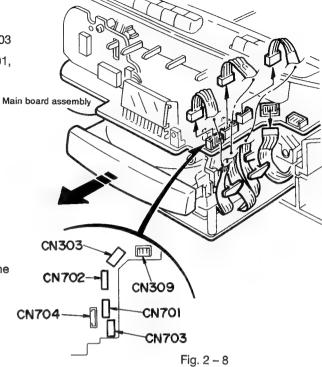


Fig. 2 - 7

♦ Removing the CD player assembly (Fig. 2 – 8)

 Remove the harnesses CN701, CN702, CN703 and CN303 from the main board (connectors on main board CN701, CN702, CN703 and CN303).

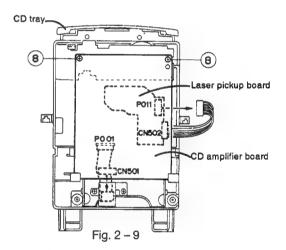


♦ Removing the CD amp PCB (Fig. 2 – 9)

- 1. Remove the two screws ® securing the CD amp PCB.
- 2. Remove the harness of connector CN502 from P011 on the pickup PCB.
- 3. Remove the card wire coming from P001 from CN501.

◆ Removing the CD tray (Figs. 2 – 10 and 2 – 11)

- 1. Remove the two screws (9) for the CD tray stopper.
- Turn over the loading base assembly. Insert a Phillips driver in hole A of the CD tray motor assembly and turn the driver counterclockwise. The tray will be released.
- 3. When the tray is released, pull it out by hand.



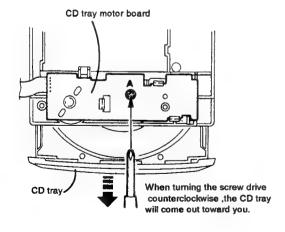


Fig. 2 - 11

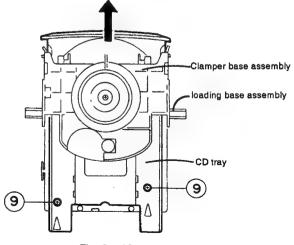
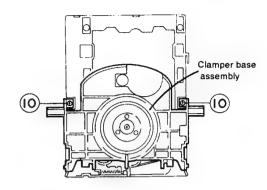


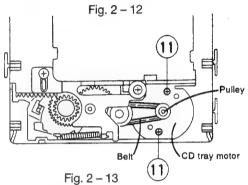
Fig. 2 - 10

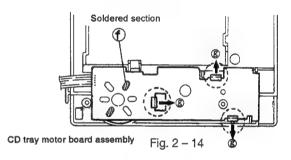
- ◆ Removing the clamper base assembly (Fig. 2 12)
 Remove the two screws ⑩ securing the clamper base assembly.
- ♦ Removing the CD tray motor (Figs. 2 13 and 2 14)
- 1. Remove the two screws (1) securing the CD tray motor.
- 2. Disengage the belt from the CD tray motor base.
- 3. Turn over the CD tray motor base assembly.
- ☆ Desolder soldered section ⑤ on the CD tray motor PCB.
- ☆ Remove the PCB by opening the three claws ② on the CD tray motor PCB in the direction shown by the arrow.



- 1. Turn over the CD player assembly and remove the two screws ② securing the CD mechanism assembly.
- To remove shaft in the upper part of the CD mechanism assembly from the fitting of section (h) (slot of the slide) of the loading base assembly, pull the CD mechanism assembly diagonally upward toward you.
- ★ To reassemble, move the slide of the loading base assembly in the direction shown with the arrow and insert the shaft in the upper section of the CD mechanism assembly into section ① (slot of the slide).







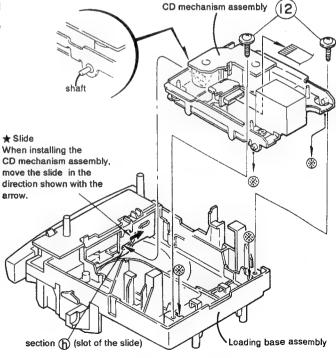


Fig. 2 – 15

◆ Removing the cassette mechanism assembly (Fig. 2 – 16)

- 1. Remove the handle (Fig. 2-3).
- 2. Remove the CD player assembly (Fig. 2 8).
- Remove the harness coming from connectors CN702 and FW302 on the main board from connectors CN3 and CN2 on the tuner board.
- 4. Remove the 3 pin connector coming from the main board from connector CN306 on the power supply board.
- Remove the cassette mechanism assembly by pulling it out in the direction shown with the arrow.

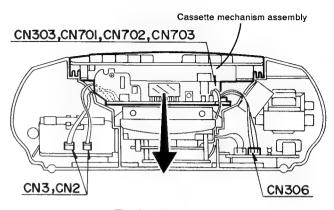
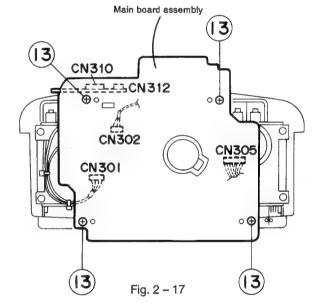


Fig. 2 – 16

◆ Removing the main PCB (Figs. 2 – 17 and 2 – 18)

- 1. Remove the four screws (3) securing the main board from the rear of the cassette mechanism assembly.
- Remove the harness coming from the cassette mechanism from connectors CN301, CN302 and CN305 on the main PCB. When connecting connector CN305, trim the harness by referring to Fig. 2 – 18.
- ☆ The volume board and main board are connected by a harness. To separate the main board completely from the rear cabinet, first remove the volume board. Refer to "Removing the microphone unit and the volume PCB".



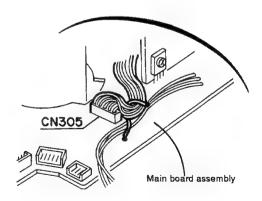


Fig. 2 - 18

Cassette mechanism assembly

♦ Removing the cassette mechanism

(Figs. 2 - 19 and 2 - 20)

- Press the stop/eject buttons for mechanisms A and B to open the cassette doors (Fig. 2 – 19).
- 2. Remove the six screws securing the cassette mechanism (Fig. 2 20).

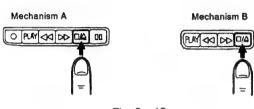


Fig. 2 - 19

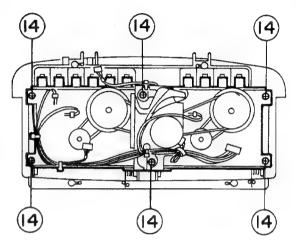


Fig. 2 - 20

◆ Removing the battery contact PCB (Fig. 2 – 21)

- Open the claw ① securing the battery contact board from the rear of the rear cabinet and pull out the battery contact board toward the rear panel.
- Remove the 2-pin connector coming from the battery contact board from connector CN703 on the power supply board.

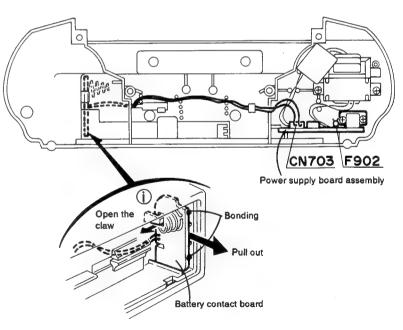
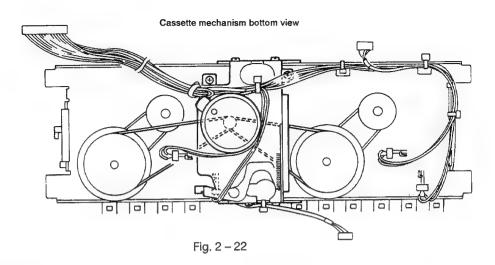


Fig. 2 – 21



◆ Removing the capstan motor (Figs. 2 – 22 and 2 – 23)

- 1. Separate the front and rear cabinet assemblies.
- 2. Remove the cassette mechanism assembly.
- 3. Remove the main board.
- 4. Remove the main belt from the flywheel assembly of mechanisms A and B.
- 5. Remove the three screws ② securing the capstan motor.

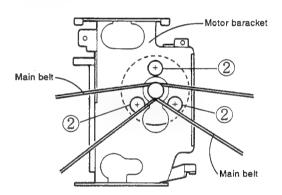


Fig. 2 - 23

◆ Removing the eject slide lever (Fig. 2 – 24)

- Press the stopper arm with a small minus driver as shown in the figure to release the stopper arm.
- 2. Remove the eject slide lever in the direction shown with the arrow ②.

◆ Removing the leaf switch (Fig. 2 – 25)

- 1. Press the leaf switch in the direction shown with arrow ...
- 2. Remove the leaf switch by pressing it in the direction shown with arrow @.

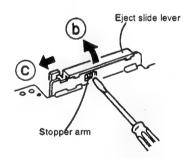


Fig. 2 - 24

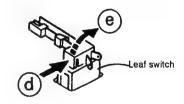
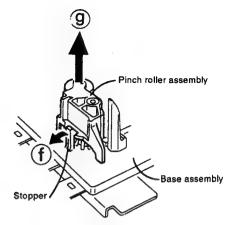
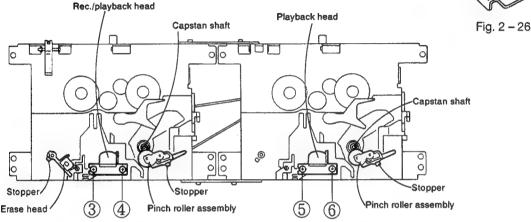


Fig. 2 – 25

♦ Removing the pinch roller (Fig. 2 – 26)

- 1. Detach the stopper from the pinch roller assembly by pulling it in the direction shown with arrow ①.
- 2. Pull out the pinch roller assembly in the direction shown with arrow ②.





Rec./play back mechanism assembly

play back mechanism assembly

Fig. 2 – 27

◆ Removing the rec/play head and erase head

(Figs. 2 - 27 and 2 - 28)

- Remove the two screws ③ and ④ securing the rec/play head of mechanism A.
- 2. Remove the two screws (5) and (6) securing the play head of mechanism B.
- 3. Detach the stopper securing the erase head in the direction shown with arrow ①.
- 4. Pull out the erase head in the direction shown with arrow ①

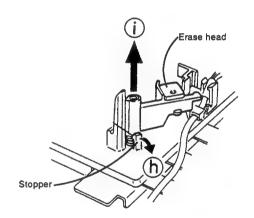
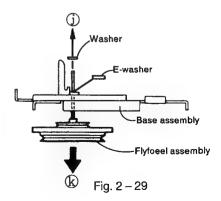


Fig. 2 – 28

◆ Removing the flywheel assembly (Fig. 2 – 29)

- Remove the E washer securing the flywheel assembly and pull the washer out in the direction shown with arrow (j).
- 2. Pull the flywheel assembly from the cassette mechanism in the direction shown with arrow **(**®).



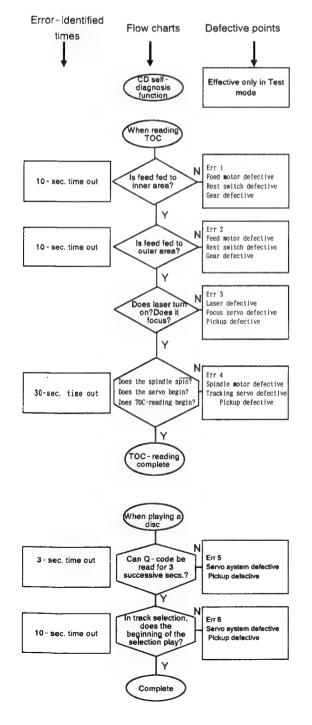
3 Troubleshooting

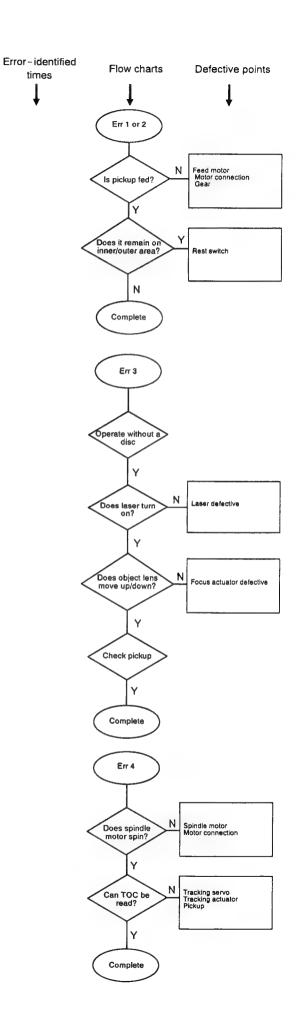
♦ HOW TO OPERATE THE CD SELF -DIAGNOSIS FUNCTION

♦ The CD Self-diagnosis Function

If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

Test mode: CD STOP (■) + POWER ON



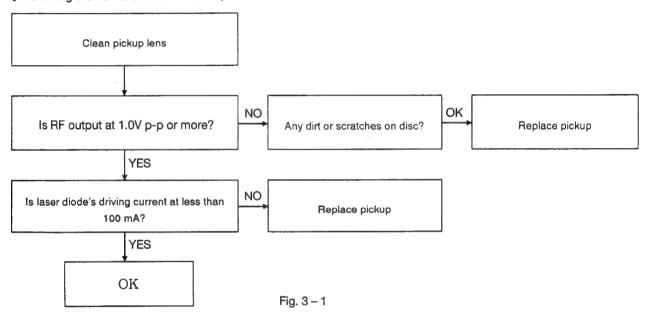


■ Pickup maintenance

(1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickuplens becomes too dirty. In this case, clean the lens.

- 1) The RF output (between TP502(RF) and TP501(VREF))
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R505 at 10 Ω .)
- ◆ Following the flow chart shown below, check the service life.



◆ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R505(10 Ω), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

= Voltage level at both ends of R505 (V)/10 (Ω)

When voltage level is at 1.0 V:

 $1.0 \text{ V/} 10 \Omega = 0.1 \text{ A} = 100 \text{ mA}$

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

General descriptions of TOC (Table of Contents) readings

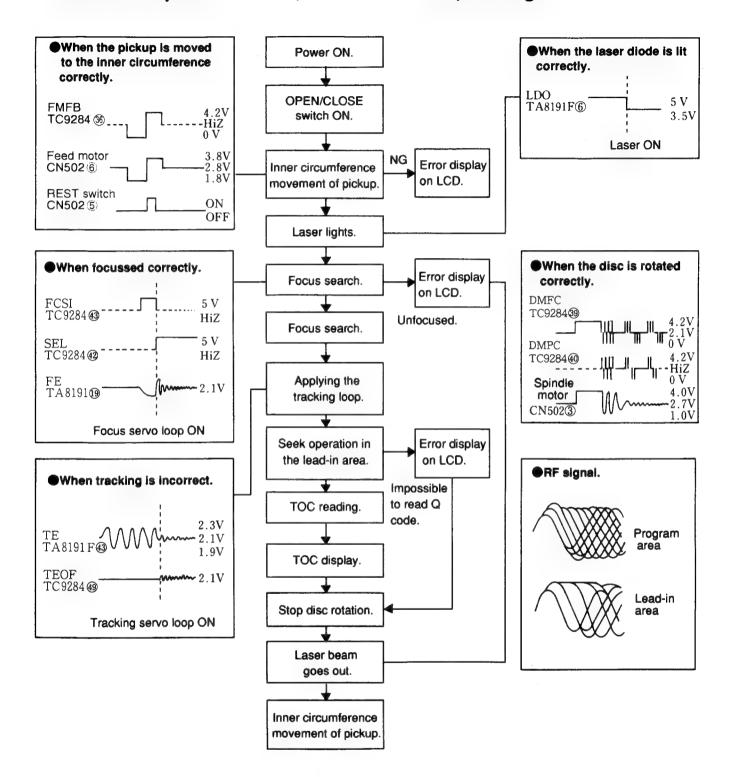


Fig. 3-2

■General section

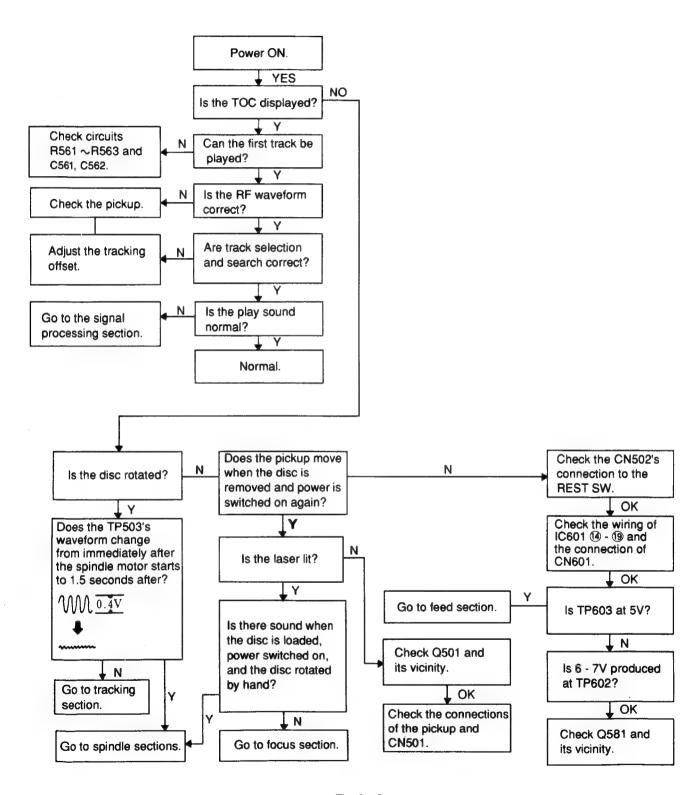


Fig. 3 – 3

Feed section

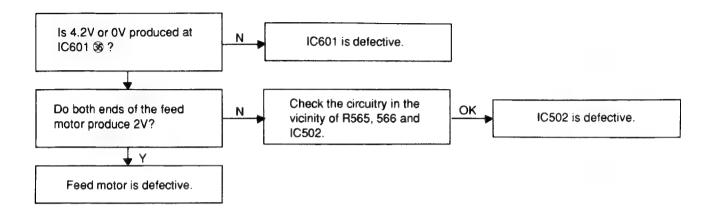


Fig. 3 - 4

Focus section

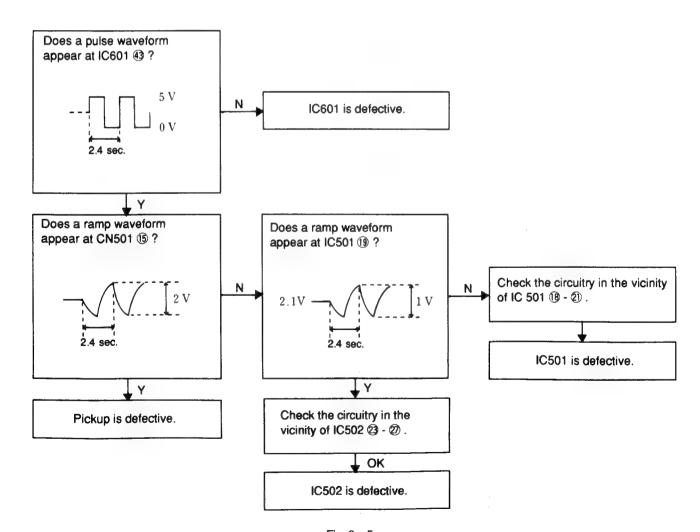


Fig. 3 – 5

Spindle motor section

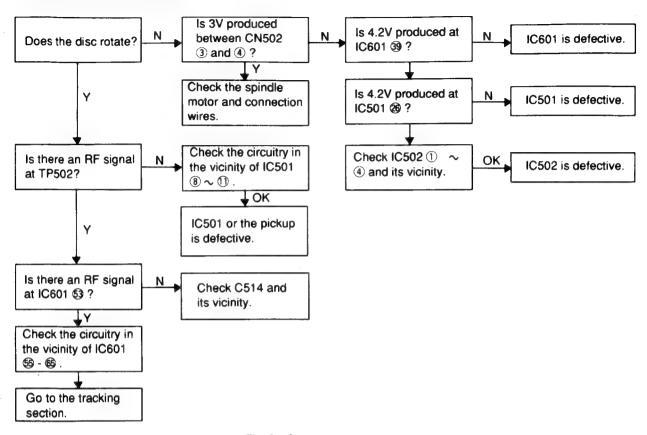


Fig. 3 – 6

Signal processing section

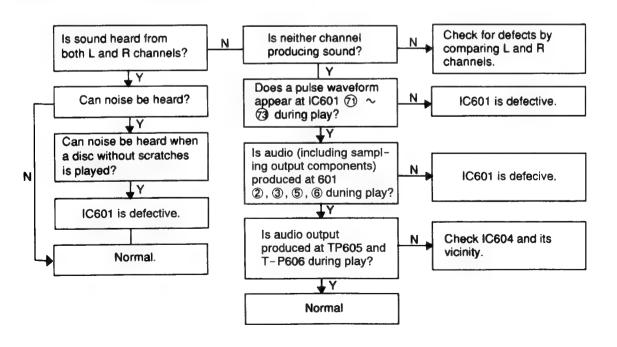


Fig. 3 - 7

■ Tracking section

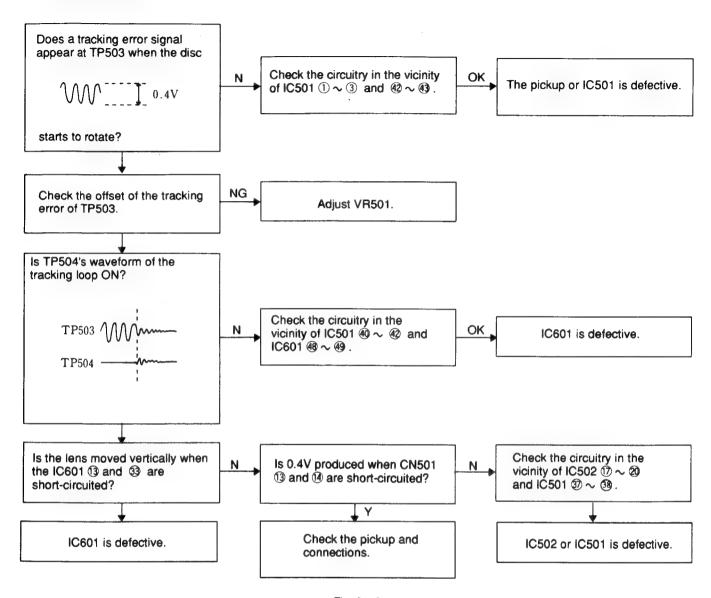


Fig. 3 – 8

4. Main Adjustments

■ Measuring instructions required for adjustment

- Low-frequency oscillator(oscillation frequency 50Hz~20kHz, 0dB output with 600 Ω impedance)
- 2. Attenuator(600 Ω impedance)
- 3. Electronic voltmeter
- 4. Distortion meter
- 5. Torque gauge(cassette for CTG-N,
- 6. Wow & flutter meter
- 7. Frequency counter meter

♦ Test tape

Playback tape

VTT 712 or VT712 (tape speed ,wow flutter)

VTT 724 or VT724 (reference level)

VTT 739 or VT739 (playback frequency)

VTT 703 or VT703 (10kHz azimuth)

Recording tape

AC 224

Power supply voltage

Your local voltage

AC 230 V / 50 Hz

Measuring instruments

Radio section

- ♦ FM :400Hz, 22.5kHz deviation
- ♦ AM: 400Hz, 30%, modulation
- ♦ Reference output :

speaker output: 0dBs(0.755V)/3 Ω

H.phone output : -10dBs(0.245V)/32 Ω

♦ Standard position of function switch

Function switch: FM

Bass boost : OFF

Main volume: Reference output

Amplifier section

◇ Reference output :

speaker output 0dBs(0.755V)/3 Ω

H.phone output $-10dBs(0.245V)/32 \Omega$

Standard position of function switch and volume

Function switch: TAPE

Mode switch: STEREO

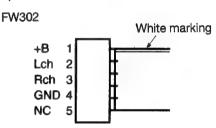
Beat cut switch: Normal (1 position)

Tone : Maximum

Reference input

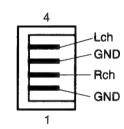
Recording input level: -30 dBs

Input point : FW302



Output terminal: CN309

CN309



♦ Other item

• Standard recordingt current for recording :

Normal mode 33 µA

• Bias oscillation frequency (Beat cut switch to normal) :

 $75 \text{ kHz} \pm 3 \text{ kHz}$

• Standard bias current for recording :

Normal mode 500 µA

CD section

■ Cassette Amplifier Section

Item	Measuring condition	Check and adjustment procedure	Standard value	Adjusting part
Head azimuth adjustment	Test tape: VTT703 (10 kHz) Signal output terminal: PHONES (with 32 Ω load)	 Play back the test tape VTT703 (10 kHz). Adjust the head azimuth adjusting screw so that the phase difference between the R and L channels is minimized at an output level that is within ±2 dB of the maximum output level of the deck A in the FWD and REV operations. After this adjustment, lock the head azimuth adjusting screw with screw sealant to cover more than a half of the screw head. When the head azimuth is maladjusted, correct it with the head azimuth adjusting screw in the FWD and REV operations alternately. 	Output level: Within ±2 dB of maximum output level Phase difference R and L channels: Minimum	Head azimuth adjusting screw (To be used only after head re- placement)
Tape speed and wow/ flutter check and adjust- ment	Test tape: VTT712 (3 kHz) Sigfnal output terminal: PHONES (with 32 Ω load)	 Play back the test tape VTT712 (3 kHz) by the end portion. Connect a frequency counter and check that it reads between 2940 and 3090 Hz. If not, adjust the frequency with the semi-fixed resistor VR303. Check that the wow/flutter is within 0.38% (unweighted.) 	• 2940 to 3090 Hz • Within 0.38% (unweighted)	• Tape speed: VR303
PB frequency response check	Test tape: VTT739 Signal output terminal: PHONES (with 32 Ω load)	Play back the test tape VTT739 while confirming that deviation between the 1 kHz signal and 10 kHz signal should be 0 ± 4 dB.	Deviation between 1 kHz and 10 kHz: 0 ± 4 dB	
Bias frequen- cy check	Tape: Normal Signal output terminal: Speaker	Set the BEAT CUT switch to the NORM-1, and check to see if the frequency at the measuring point is 75.5 ± 3 kHz. If not, adjust the frequency to be 75.5 ± 3 kHz. Then, change the setting of the BEAT CUT switch to the NORM-2 and NORM-3 positions to check to see if the measured frequency is equivalent to the standard value respectively.	Standard values • STD-1 position: 75.5 ± 3 kHz • STD-2 position: 72.5 ± 3 kHz • STD-3 position: 75.5 ± 3 kHz	
REC and PB frequency re- sponse adjust- ment	Test tape: AC224 Signal input/output terminal: FW302/PHONES	Set the TAPE SELECT switch to the NORMAL position and BEAT CUT switch to the STANDARD-1, and record the reference 1 kHz (-30 dB) signal and 8 kHz signal alternately repeatedly. While playing back the recorded signals, check to see if the output level of the B kHz signal differs from that of the 1 kHz signal by within +1 ± 4 dB.	Level difference between REC and PB: Within +1 ± 4 dB	
REC and PB sensitivity check	Test tape: VTT724 (1 kHz), AC224 Signal input/output terminal: FW302/ PHONES	Input the 1 kHz, -30 dBs signal through the input terminal FW302 and record it. While playing back the recorded signal, check to see if the playback output level at the measuring point is within 0 dBs as compared with the playback level of the test tape VTT724.	Within 0 dBs ± 3 dB	

■ Tuner Section

Item	Measuring condition	Check and adjustment procedure	Standard value	Adjusting part
IF adjustment FM tracking and MPX adjustment		 Free from adjustment because fixed IF element is employed Free from adjustment because ceramic oscillator is employed Free from adjustment because fixed coil is employed 		
AM tracking adjustment	BAND selector switch: AM Standard mode setting: AUTO Measuring point: CN2 for AM output Signal input: Standard loop antenna	 While receiving a 522 kHz signal from an AM signal generator to the tuner being set to the PRESET No. 1, check to see if the output of CN2 is maximum. When voltage at TP9 is higher than 5.0 V, adjust it to be 5.0 ± 0.1 V with L4. While receiving a 603 kHz signal from an AM signal generator to the tuner being set to the PRESET No. 3, maximize the output of CN2 with L3. While receiving a 1404 kHz signal from an AM signal generator to the tuner being set to the PRESET No. 4, maximize the output of CN2 with TC2. Repeat the above steps 3. and 4. to maximize the output of CN2. 	5.0 ± 0.1 V	L4 L3 TC2 L3, TC2

■ Location of adjusting position

• Cassette mechanism section

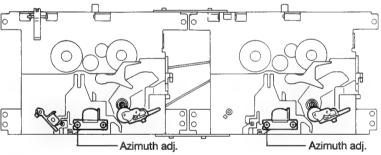


Fig. 4 – 1

TUNER board assembly

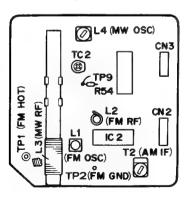
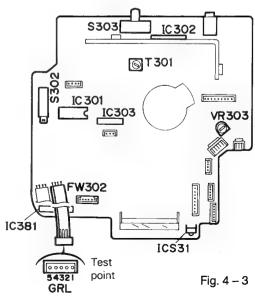


Fig. 4 – 2

Main amplifier board assembly



■ CD player Section

ltem	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Tracking offset adjustment	Test disc :CTS1000 Oscilloscope Note 1 Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage value of servo. Note 2 The oscilloscope input should be DC—coupled. Note 3 VREF: Groud level on the oscilloscope.	① Connect TP503 (TE) and TP501 (VREF) respectively to the hot and ground sides of the oscilloscope. ② Replay the test disc CTS1000. ③ When TP504 and TP501 have been connected (Shorted) during replay, a tracking error signal will be emitted for about 3 sec. (Since the tracking error signal will be emitted at all times when the model with a test mode function is shifted to TEST mode, the adjustment can be performed more easily). ④ Since the waveform of tracking error signal displayed by the oscilloscope goes up and down when VR501 has been adjusted, adjust VR501 so that the center of the waveform amplitude becomes a reference voltage value of servo(VREF). ⑤ Repeat the steps ② ~ ④ until the center of the waveform amplitude of tracking error signal becomes the reference voltage value of servo (This step is not necessary in the case of the model with test mode function).	Adjust the center of waveform amplitude to the reference voltage value of servo (VREF).	VR501
		Tracking error signal VREF	Adjust the waystemmetric reference vo value of serv	rtically cal to the Itage

■ Adjusting position (CD amplifier board)

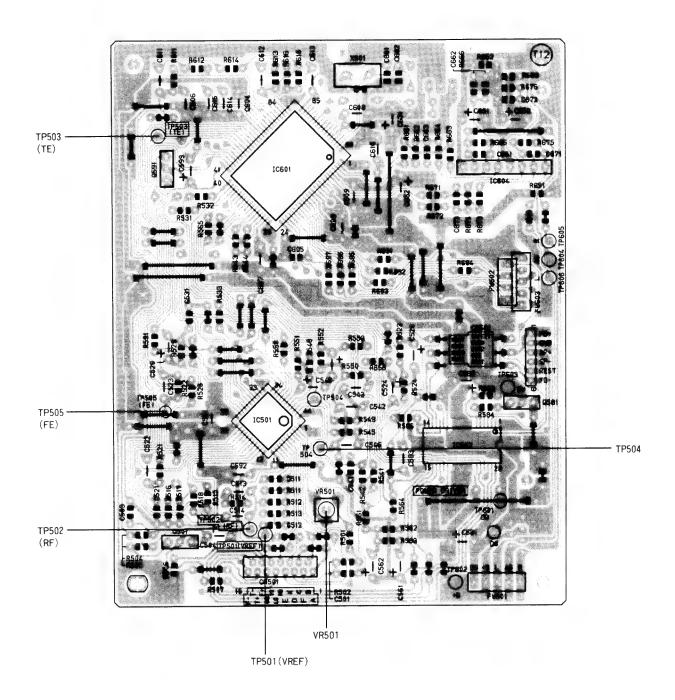
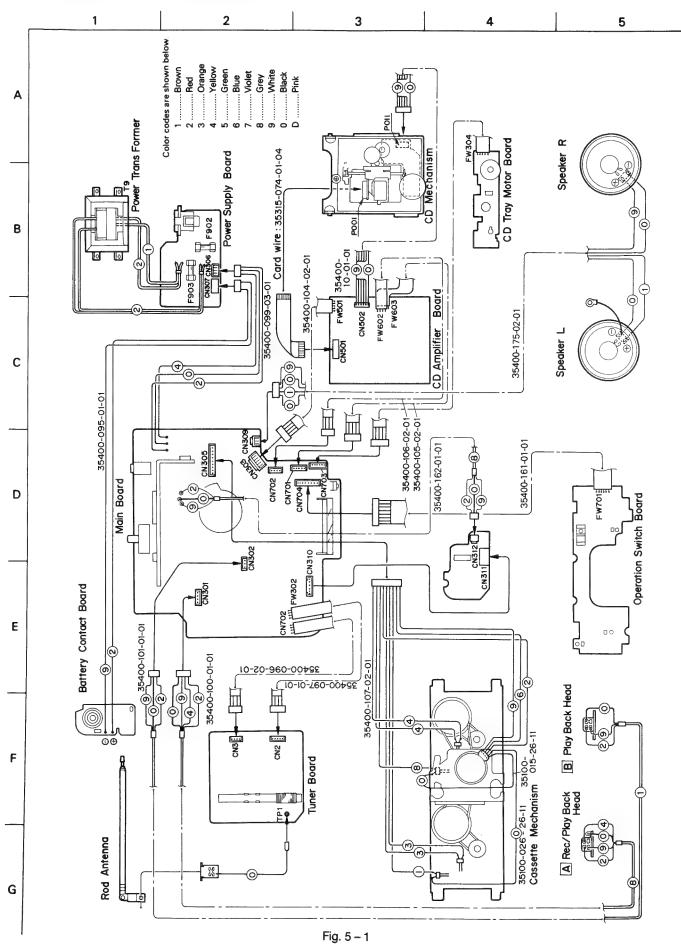


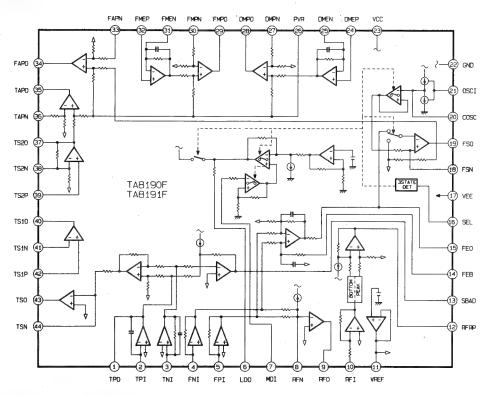
Fig. 4 – 4

5. Wiring Connections

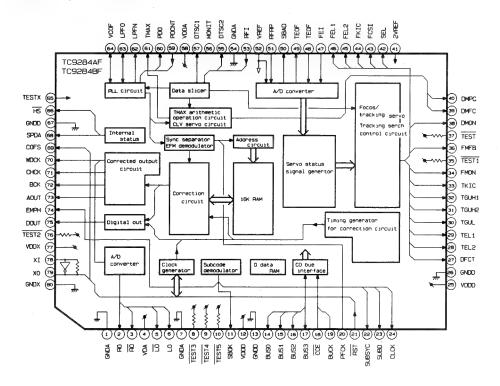


6. Block Diagram

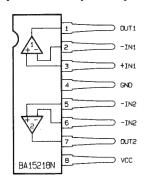
- Integrated circuit diagram
- ♦ IC501 (TA8191F) Servo



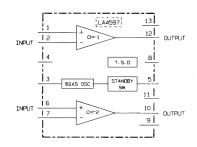
♦ IC601 (TC9284BF) Processor

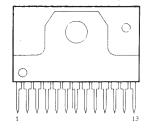


♦ IC604 (BA15218N) Low pass tilter

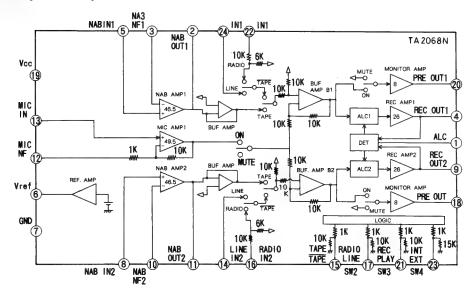


♦ IC302 (LA4597K) Power amp

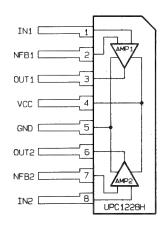




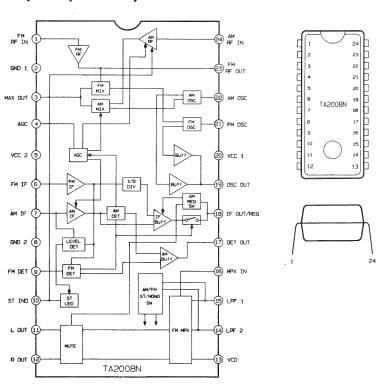
♦ IC301 (TA2068N) R/P amp/sw



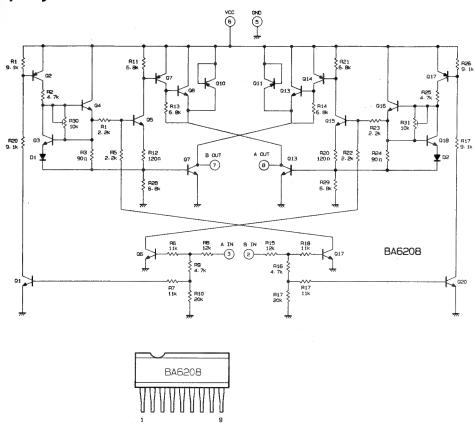
♦ IC303 (UPC1228HA) Head amp drive



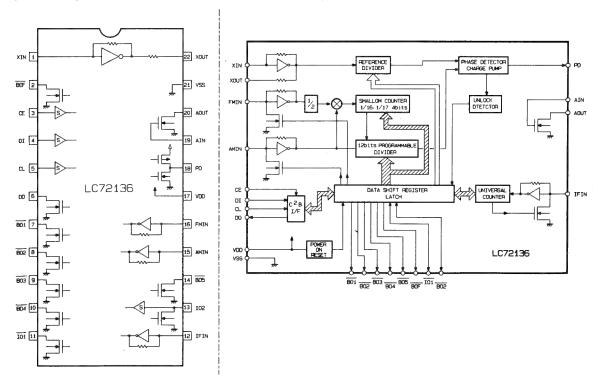
◆ IC2 (TA2008N) RF/IF/DET



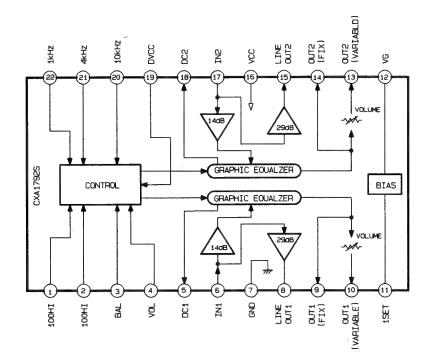
♦ IC802 (BA6208A) Tray motor

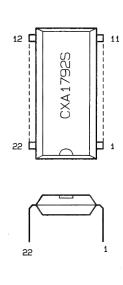


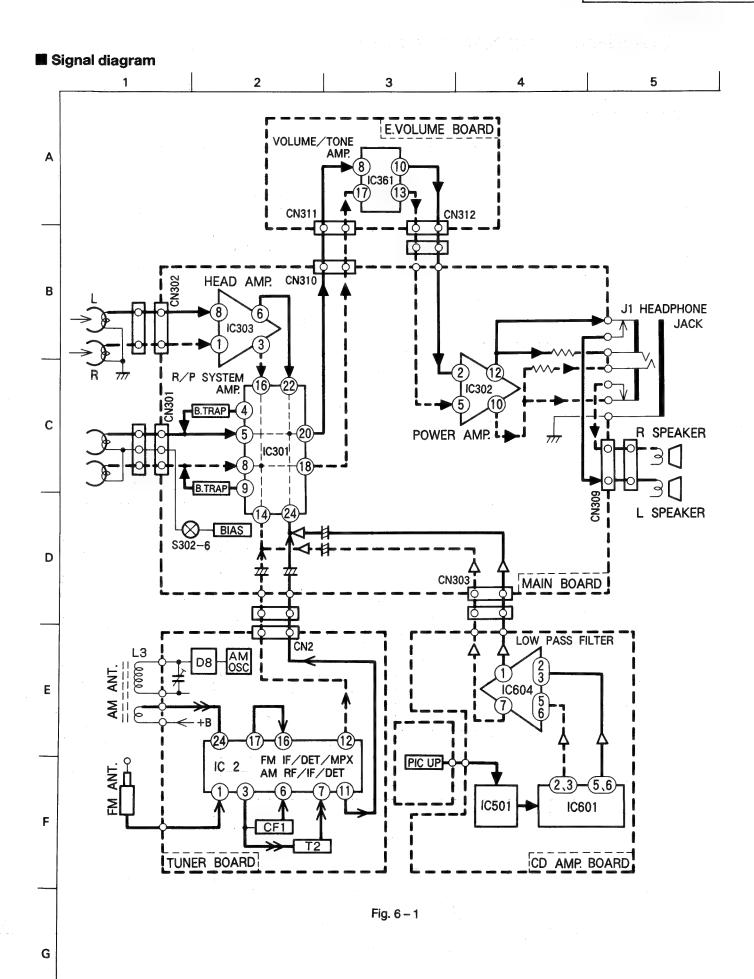
♦ IC3 (LC72136) PLL



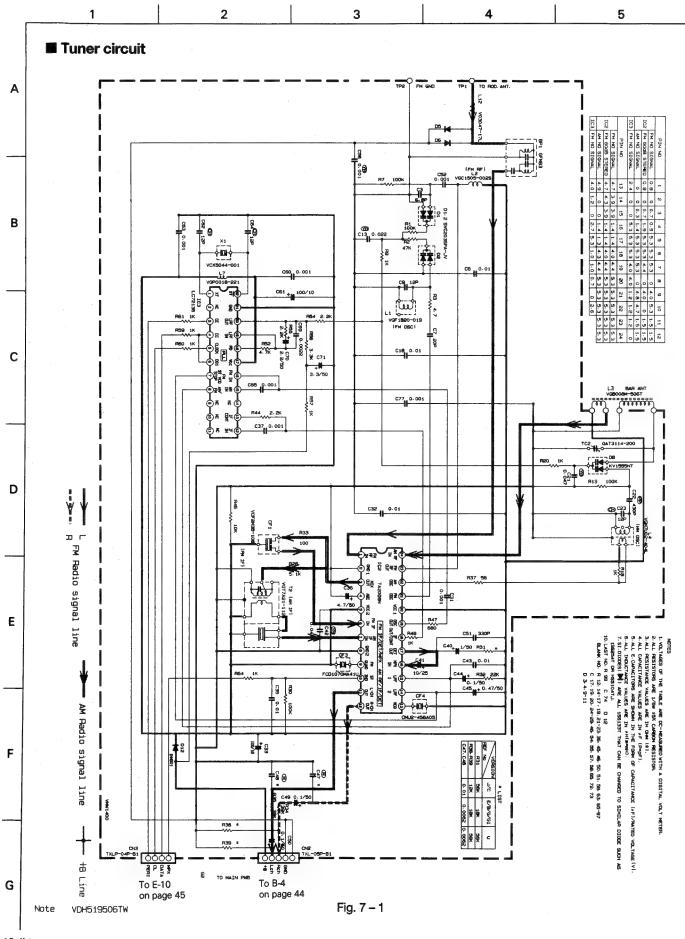
♦ IC361 (CXA1792S) E. Volume

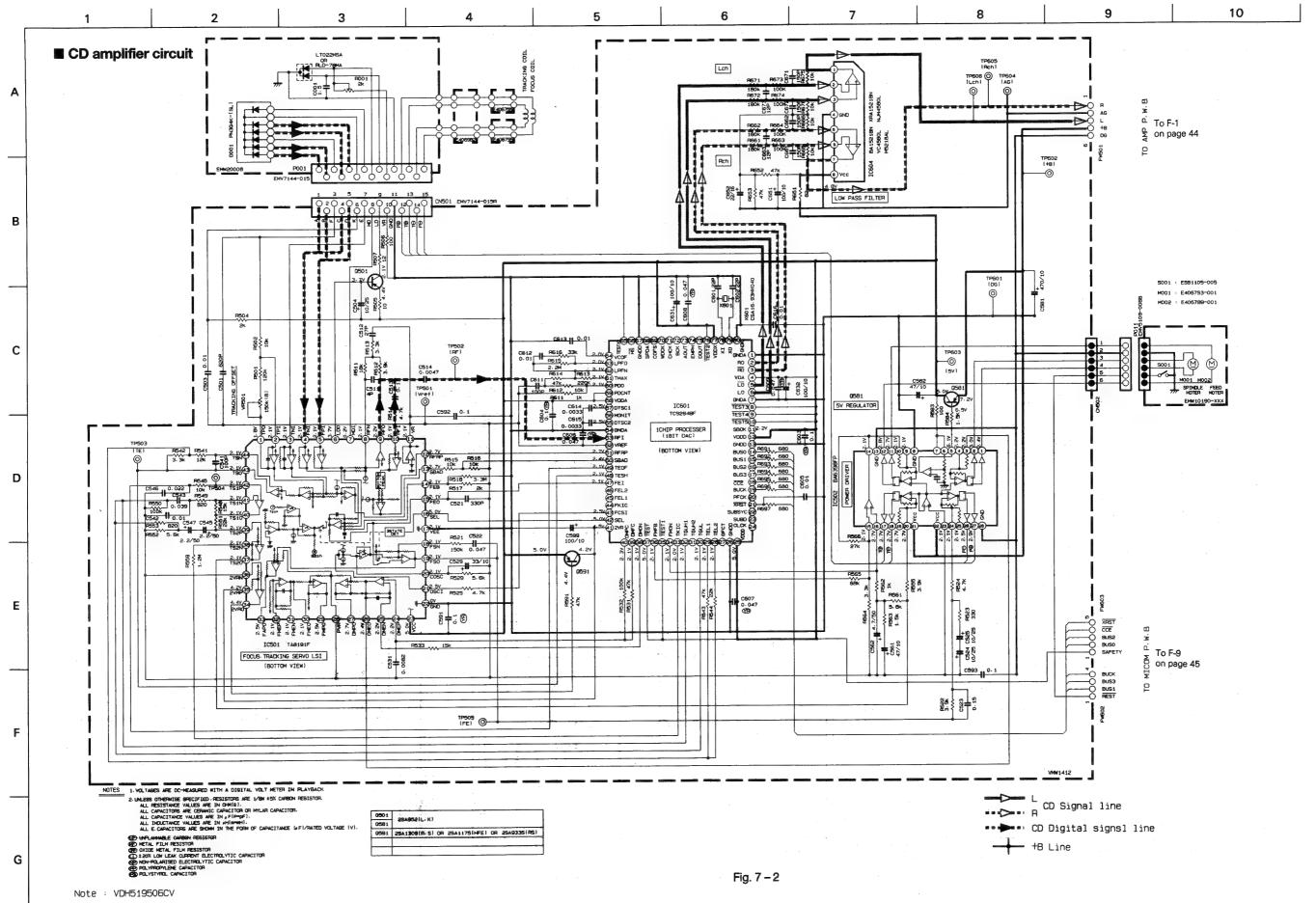


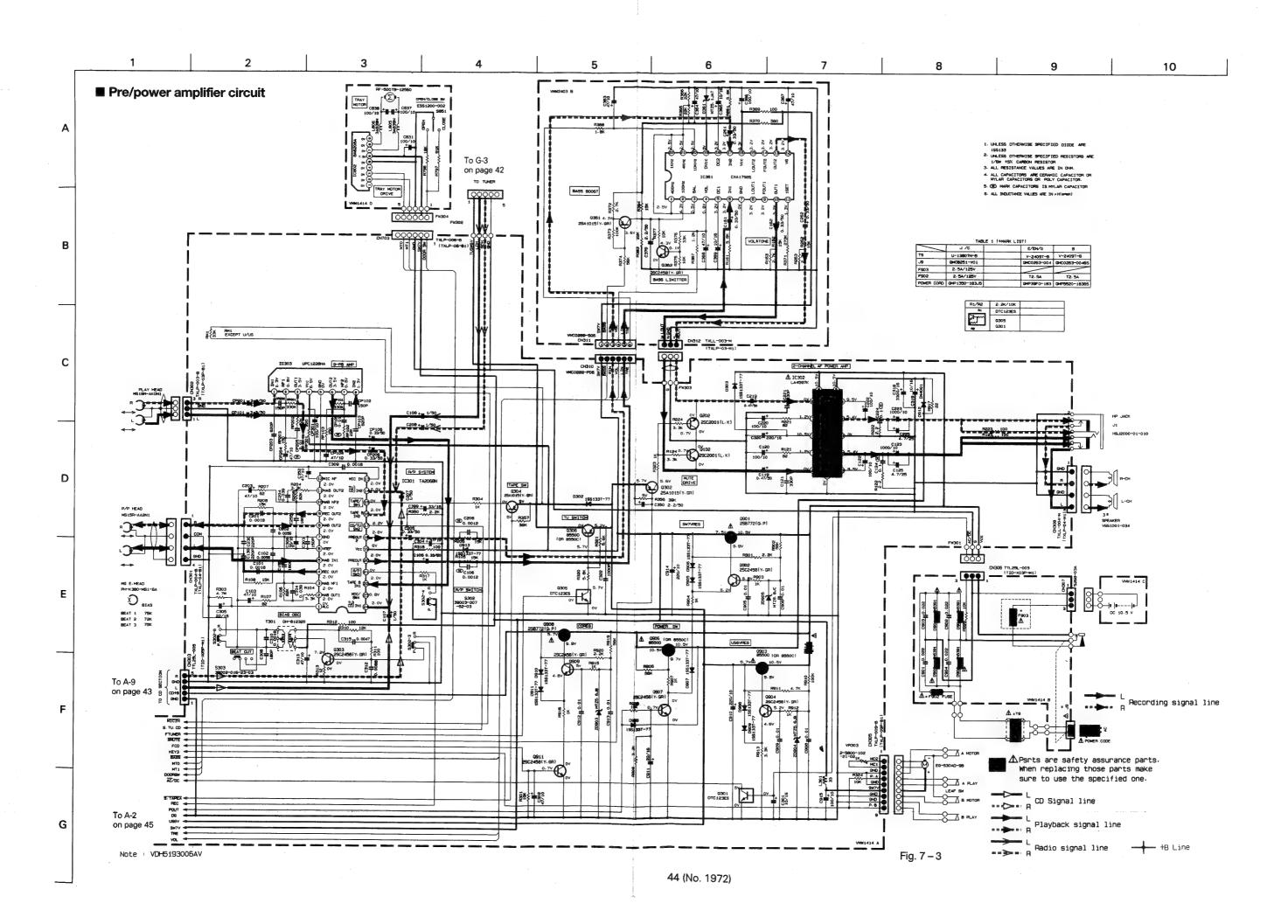


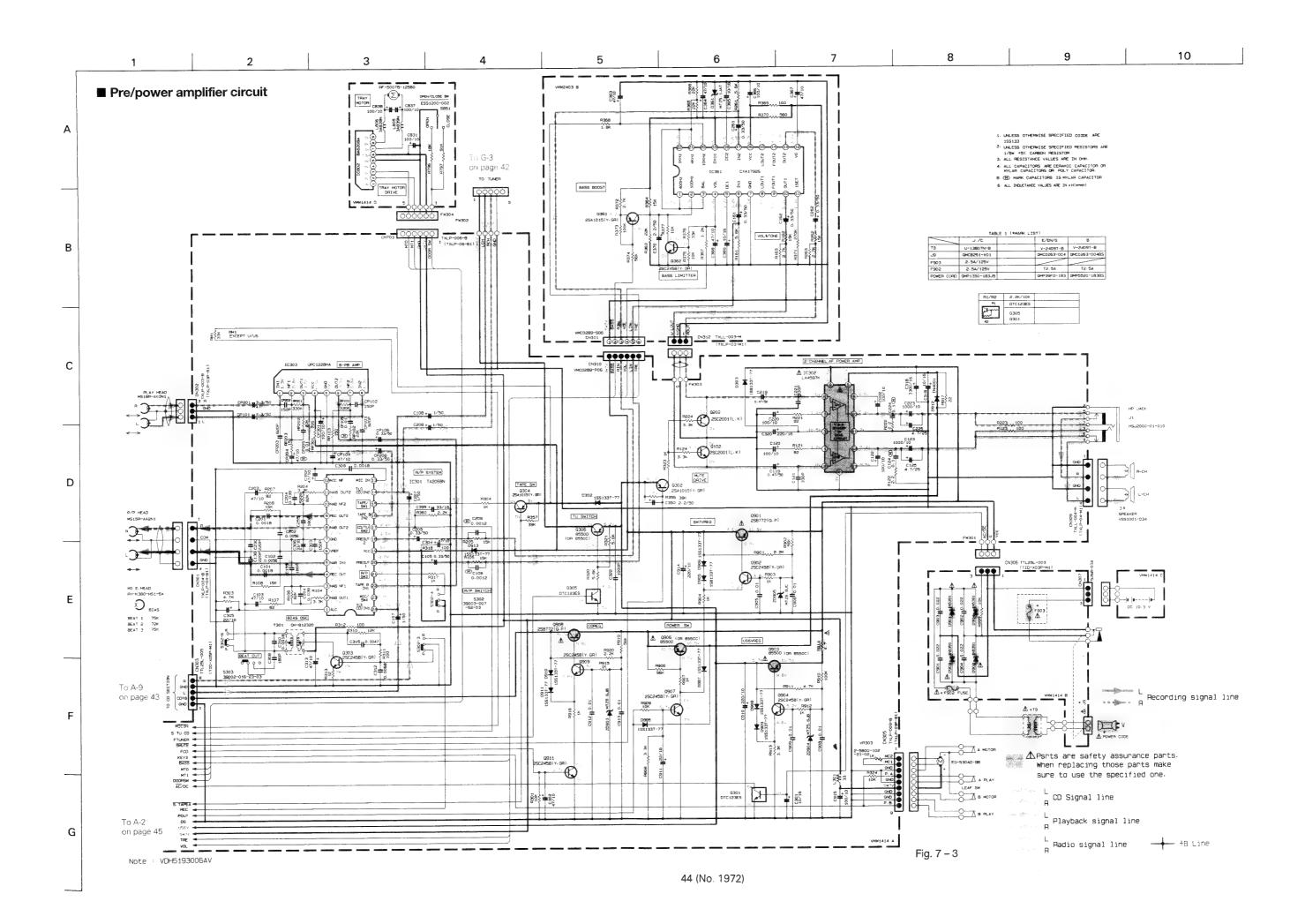


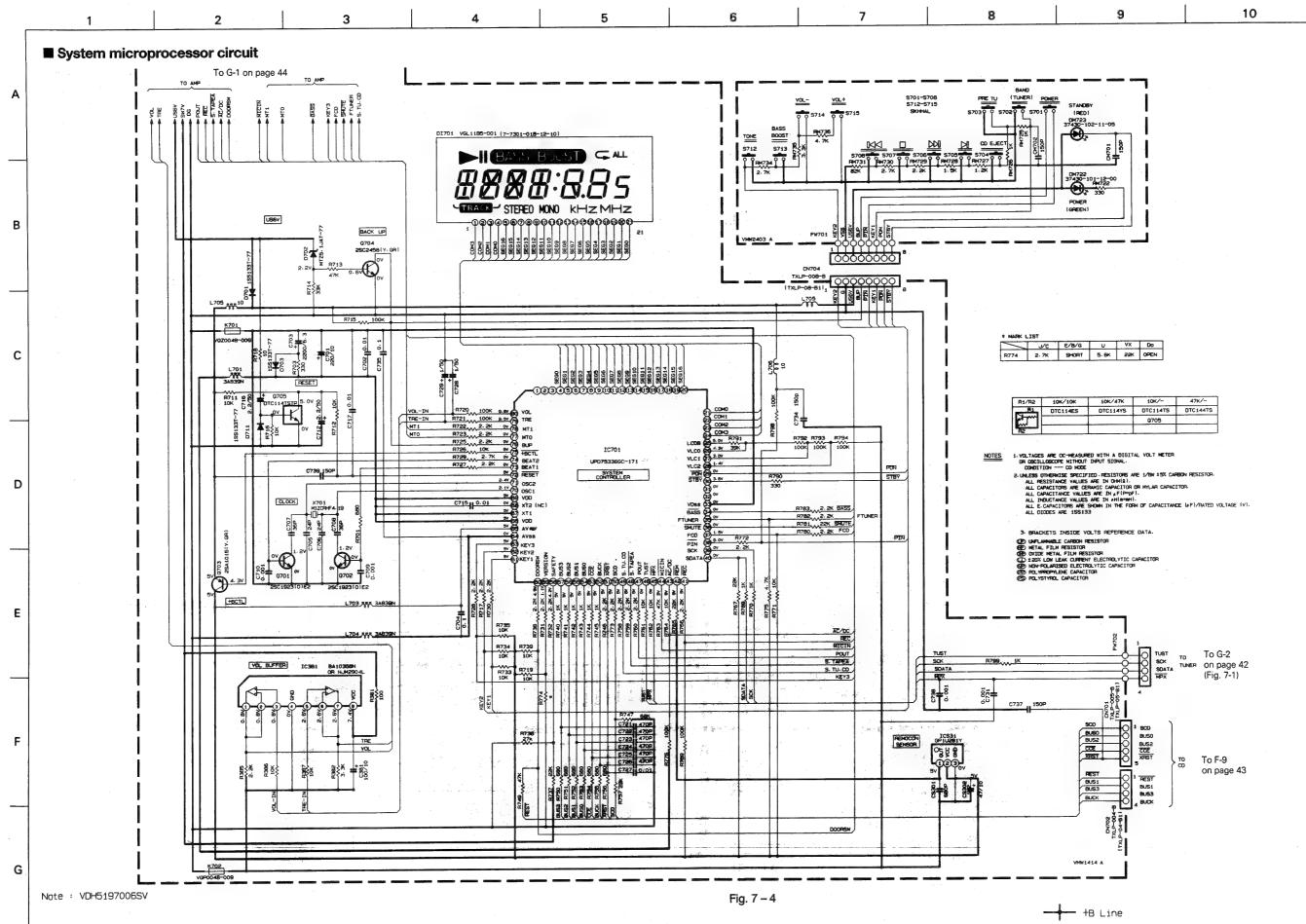
7. Standard Schematic Diagram



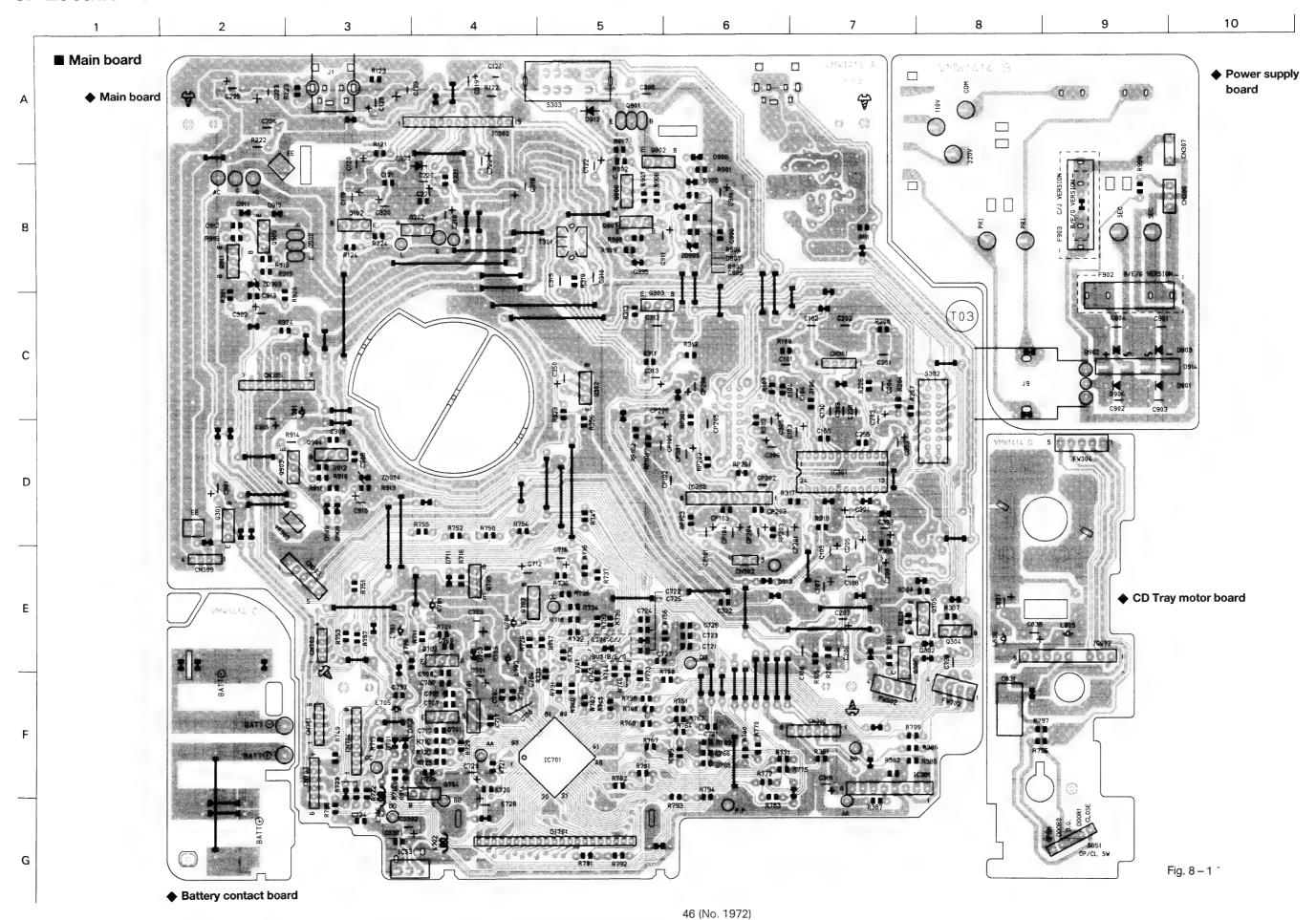






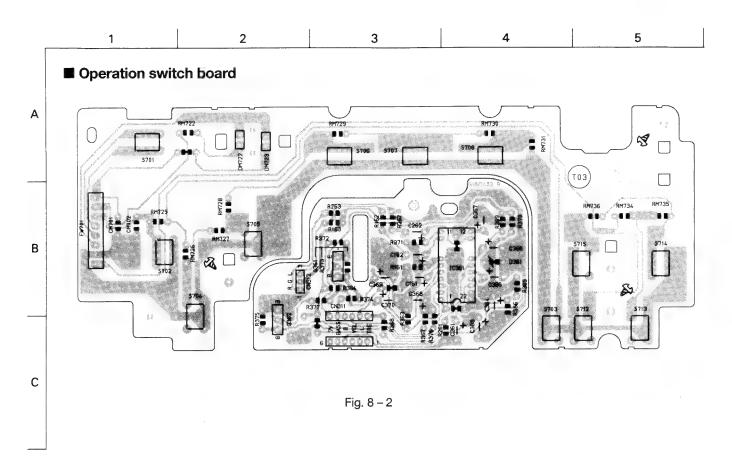


8. Location of P.C. Board Parts and Parts List



SUFFIX
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ex. c
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SUFFIX								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BLOCK NO. OHILLII	1/6W 1/6W 1/6W 13-S 01-G9				-			
PARTS NAME	BON RESIS BON RESIS BON RESIS H SWITCH DE SWITCH	SWITCH BIAS OSC COIL SEMI.V.RESISTOR CERA LOCK ZENER DIODE	N N					
PARTS NO.	QRD161J-223 QRD161J-151 QRD161J-221 PS-62D13-S SK-23E01-G9	ESS: OH-8 QVP/ M1Z(MTZ					
REF.	RP202 RP203 RP301 S 302 S 303							
€				 				



Operation switch board parts list

E F.	PARTS NO.	PARTS NAME	REMA	SUFFIX
2	ETC1HM-334	.CAPACITO	33MF 20	
9	ETC1HM-33	.CAPACITO	33MF 20%	
9	ETC1HM-334	CAPACITO	33MF 20%	
0 3	E I C I MM - 554 F T & 18M - & 74	CAPACILO	23MF 20%	
200	EK41AM-47	CAPACITO	7MF 20% 1	
26	EK41CM-10	.CAPACITO	OMF 20% 1	
20	EK61AM-10	CAPACITO	COMF 20%	
268	QEK41AM-4/6	E CAPACITOR	200	
200	ET41CM-10	CAPACITO	OMF 20%	
3.7	ETC1HM-225	.CAPACITO	.2MF 20%	
5	CBB1HK-15	.CAPACITO	SOPF 10%	
2	CBB1HK-151	.CAPACITO	50PF 10%	
	MC0289-S0	DINECTO	8 2	
2.2	XLL-003-M T75 11AT-7	JENEC DE	> ×	
2 0	7430-102-11-0	FD GREEN		
2	7430-101	ED RED		
3	XA1792S	U		
9	SA1015(Y,	RANSISTO		
φ:	SC2458(Y,GR	KANSISIUR	2	
9	RD167J-56	ARBON RESISTO	.6K 5% 1/	
9 7	KD16	CARBON RESISTOR	5% T	
	801471-54	ARBON RESISTO	AK 5% 1/6	
2 4	071611-15	APPON PESTSTO	5K 5% 1/6W	
3 6	RD1613-13	ARBON RESISTO	7K 5% 1/	
3 6	RD161.1-22	ARBON RESISTO	2K 5% 1/6W	
3 5	RD161.1-15	ARRON RESISTO	5K 5% 1/6	
36	RD1611-22	ARBON RESISTO	2K 5% 1/6	
36	RD161J-22	ARBON RESISTO	2K 5% 1/6	
36	RD161J-12	ARBON RESISTO	.2K 5% 1/	
38	RD161J-18	ARBON RESISTO	.8K 5% 1/6	
20	RD161J-10	ARBON RESISTO	00 5% 1/6	
3.7	RD161J-56	ARBON RESISTO	60 5% 1/6W	
~	RD161J-27	ARBON RESISTO	70K 5% 1/6	
2	RD161J-27	ARBON RESISTO	.7K 5% 1/	
> 1	RD161J-10	AKBON KESISIO	00K 5% 1/6	
: []	00141110	ADBON DECICIO	OK 5% 1/6	
	RD161.1-33	ARBON RESISTO	3K 5% 1/6	
3	RD161J-10	ARBON RESISTO	OK 5% 1/6	
2	RD1611-33	ARBON RESISTO	30 5% 1/6	
72	RD161J-10	ARBON RESISTO	.0K 5% 1/6	
72	RD161J-10	ARBON RESISTO	.0K 5% 1/	
2	RD161J-12	ARBON RESISTO	.2K 5% 1/6	
22	RD161J-15	ARBON RESISTO	.5K 5% 1/6	
22	RD161J-22	ARBON RESISTO	.2K 5% 1/6	
2	RD161J-27	ARBON RESISTO	.7K 5% 1/6	
2	RD161J-82	ARBON RESISTO	2K 5% 1/6W	
2 1	KD161J-27	ARBON RESISIO	./K 5% 1/	
1 0	KU10/J-25	AKBON KESISAD	071 80 80.	
7 6	KU1013-47	AKBUN KESISTU	0/1 96 1/0	
2 2	ONTHAC OKULAL	CLESS LOV		
0	SKHHAL	ACT SWITC		
2	SKHHAL	ACT SWITC		
2	SKHHAL	ACT SWITC		
2	SKHHAL	ACT SWITC		
12	SKHHAL	ACT SWITC		
2	SKHHAL	ACT SWITC		
71	SKHHAL	ACT SWITC		
71	SKHHAL	ACT SWIT		
7	SKHHAL	ACT SWITC		_
l				

2 3 5 ■ Tuner board Α TO ROD.ANT В С ■ D C32 D 103 E Σã

Fig. 8 – 3

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● Tuner board parts list

						,						
	SUFFIX											
BLOCK NO. 03	REMARKS	100K 5% 1/6W 47K 5% 1/6W	* 0 0 0 0	***	100 5% 1/6W 39% 5% 1/6W 39% 5% 1/6W 56 5% 1/6W 18% 5% 1/6W	18K 5% 1/6W 2.2K 5% 1/6W 10K 5% 1/6W 680 5% 1/6W 1.0K 5% 1/6W	.7K 5% 1/6% .2K 5% 1/6% .2K 5% 1/6% .3K 5% 1/6%	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0				
	PARTS NAME	OSC COIL(MW) INDUCTOR INDUCTOR CARBON RESISTOR 1	RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR	T CAPACITOR PIN SOCKET PIN SOCKET CRYSTAL			
	PARTS NO.	VQM7U02-404 VQP0018-221 V03047-17 QRD161J-104			QRD161J-101 QRD161J-393 QRD161J-393 QRD161J-560 QRD161J-183	QRD161J-183 QRD161J-222 QRD161J-103 QRD161J-681 QRD161J-681	QRD161J-472 QRD161J-222 QRD161J-222 QRD167J-332 QRD167J-102	1				
	A REF.		R R R R R R L 13 9 7 3			R R R 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1	R R R C C C C C C C C C C C C C C C C C	X + 1 + C			
0]3[1]111	SUFFIX											
BLOCK NO.	REMARKS	6.8PF 10% 50V 2010MF 30% 16V 12PF 5% 50V	.022MF 20% 25V .010MF 30% 16V .047MF 20% 25V 430PF 5% 100V 12PF 5% 50V	1000PF 10% 50V .010MF 30% 16V .010MF 20% 10V .010MF 30% 16V 4.7MF 20% 50V	1000PF 10% 50V 1.0MF 20% 50V 10MF 20% 16V .047MF 20% 25V .010MF 30% 16V	.10MF 20% 50V .47MF 20% 50V 6800PF 5% 50V 610MF 20% 50V	.10MF 20% 50V 330PF 10% 50V 1000PF 10% 50V 1000PF 10% 50V	100MF 20% 10V 12PF 5% 50V 1000PF 10% 50V 12PF 5% 50V 1000PF 10% 50V	2200PF 20% 16V 2.2MF 20% 50V 3.3MF 20% 50V 1000PF 10% 50V			
	TS NAME	BAND PASS FILTE C.CAPACITOR C.CAPACITOR C.CAPACITOR C.CAPACITOR				E.CAPACITOR E.CAPACITOR M.CAPACITOR M.CAPACITOR CAPACITOR	E.CAPACITOR C.CAPACITOR C.CAPACITOR C.CAPACITOR			C FILTER CERA LOCK CONNECTOR CONNECTOR		10 10 0SC COIL RF COIL
	PARTS NO.	1 VBP4M3B-007Z 3 QCSB1HK-6R8Y 6 QCVB1CN-103Y 7 QCS11HJ-200 9 QCS11HJ-120	3 QCC11EM-223V 6 QCVB1CN-103Y 1 QCC11EM-473V 2 QFG32AJ-431ZN 3 QCT3OCH-120Y		7 GCBB1HK-102Y 0 GET41HM-105 1 GET41CM-106 2 GCC11EM-473V 3 GCVB1CN-103Y	4 GETC1HM-1042 5 GET41HM-474 7 GFN41HJ-682 8 GFN41HJ-682 9 GETC1HM-1042	J	1		3 VCF1222-1172 4 CMU2-456A05 2 TXLP-005-B 3 TXLP-004-B 1 SVC203SPA-AB-AL		2 TA2008N 3 LC72136 1 VQF1B20-019 2 VQC1505-002
	REF.	# 0 0 0 0		C 332 C 338 C 338 C 358			C 51 C 51 C 52 C 52 C 56	C 61 C 63 C 63 C 64 C 64	2 7 7 7	FFSSG	7	

1 2 3 4 5

■ CD amplifier board

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IC601 IC501 C

Fig. 8 – 4

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Main board parts list

SUFFIX												•											The state of the s																								
BLOCK NO. 011		2200MF 20% 6.3V	10MF 5% 50V	4PF 5% 5	4PF 5%	36PF 5% 50V	000PF 10% 5	000PF 10%	.2MF 20% 5	010MF 20%	2MF 20% 5	Olomi Zobe 1	70PF 10% 5	70PF 10% 5	70PF 10% 5	70PF 10%	70PF 10% 5	010MF 20%	.OMF 20% 5	10/11 20% J	SOPE 10% 5	10MF 20% 2	10%	000PF 10%	50PF 10% 5	00MF 20% 1	00MF 20% 1	022MF 20%	022MF 20%	. OZZMF 20% 23V	010MF 20%	010MF 20% 16	20% 1	20MF 20% 10V	20% 16V	20% 16	50%	20% 10	702 10	B HEAD	CD	DOUBLE C MECHA		ATTER	SPEAKER Des on	נ ם ב	000
PARTS NAME	6	C.CAPACITOR E CAPACITOR	F CAPACIT	. CAPACITO	CAPACIT	CAPAC	CAPACIT	.CAPACIT	. CAPACIT	CAPACIT	CAPACI.	CAPACI-	CAPACIT	CAPACIT	.CAPACIT	.CAPACIT	CAPACIT	.CAPACIT	CAPACIT	T T D D D T T	CAPACIT	. CAPACIT	. CAPACIT	.CAPACIT	CAPACIT	CAPACIT	CAPACIT	.CAPACIT	CAPACIT	CAPACIT	.CAPACIT	.CAPACIT	.CAPACIT	CAPACIT	. CAPACIT	.CAPACIT	.CAPACIT	-CAPACIT	ONNECTOR	ONNECT	ONNECTO	ONNECTO	ONNECTO	ONNECTO	CONNECTOR	D I M I M I M I M I M I M I M I M I M I	ONNECTO
PARTS NO.		QCVB1CM-103Y QETMOJM-228	0	7	4	QCS11HJ-360	200	0	25	03	7	QCVB1CM-105Y	- 1	1	71	^	<u>~</u> 1	ᅃ	QET41HM-105	2 0	ישיכ	0	N.	02	n c	0	10	2	N	QCC11FM-223V	10	0	0 0	5 0	10	0		N	2 0	TXLP-003-B			TL25L-00	68-03A	TXLL-004-M	1 P - 0 0 5 -	-004
A REF.	ď	C 703	704	705	206	707	700	710	712	715	716	727	722	723	724	725	726	727	728	731	734	735	737	738	739	837	838	901	902	904	905	906	908	910	911	912	913	914	N 301	N302	N303	N305	CN306	CN307	CN309	CNZUZ	CN702

	_																	_																	_				_	_		_						_
	SUFFIX																		-																													
BLOCK NO. 01	REMARKS	1800PF 5% 50V	08 10	39MF 5% 5	20	% %	2 %	20%	20%	10%	20% 1	7 V 7 V 7 V	20%	5% 5	10%	₩ :	5600PF 5% 50V	8 1	900	, L	2 %	20%	20%	20%	330PF 10% 50V	****	5% 50	20%	5% 5	180PF 10% 50V	1 2	36.5	0% 1	0% 1	2 2 2	, 54 , 54	22	N %	0% 1	ν %	20%	0% 16V	220MF 20% 16V 1000DE 10% 50V	20% 50	0% 10V	20%	0% 16	ωĺ
	PARTS NAME	M.CAPACITOR	CAPACITOR	M CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	. CAPACITOR	CAPACITOR	CAPACITOR	CAPACITUR	CAPACITOR	-CAPACITOR	.CAPACITOR	CAPACITOR	CAPACITOR	TI M CADACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	ILM CAPACITOR	.CAPACITOR	.CAPACITOR	.CAPACITOR	CAPACITOR	CAPACITOR	.CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	.CAPACITOR	CAPACITOR	.CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	- CAPACITOR	. CAPACITOR	CAPACITOR	.CAPACITOR
	PARTS NO.	QFN41HJ-182	F NO 1 H J - J O	V41HJ-39	ETC1HM-334Z	C1-PARTS848694	ET41HM-10	ET41HM-47	ET41AM-10	BB1HK-3	E 41AM-1	E 141AM-10 FV41H1-10	1EM-475V	1HJ-22	1HK-18	1HJ-18	= -	2007		1 4	1HM-105	-	QET41HM-474	IAM	HK	×	11	1EM-	THJ-	X X	E E	H.	1AM-	1CM-	בור בור	H	THJ-	1HJ-6	1 AM-4	1HJ-472	1CM-3	1CM-10	GE 1410M-22/	1 HM-225	1AM-476	1AM-10	1CM-33	ET41AM-22
	A REF.	C 101		C 104					1														l								- i								- 1									- 1

	SUFFIX																																				
BLOCK NO. 011	REMARKS									And the state of t							ž!;	32K 5% 1/6%	82 5% 1	15K 5% 1/6W 82 5% 1/4W		100 5% 1	3.3K 5% 1/6W 3.3K 5% 1/6W	15K 5% 1/6W	82K 5% 1/6W	82 5% 1/6W 15K 5% 1/6W			3.3K 5% 1/6W	4.7M 5% 1/6W	1.0K 5% 1/6W	12K 5% 1/6W	100 5% 1/6W	12 5% 1/6W	100 5% 1/6W	5.6K 5% 1/6W 5.6K 5% 1/6W	.OK 5% 1
	PARTS NAME	INDUCTOR	TRANSISTOR TRANSISTOR	TRANSISOTR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR		CARBON RESISTOR			CARBON RESISTOR	1	RESISTOR	CARBON RESISTOR	RESISTOR	RESI	CARBON RESISTOR	CARBON RESISTOR	1	CARBON RESISTOR		RESISTOR	CARBON RESISTOR	RESISTOR	CARBON RESISTOR	RESI	CARBON RESISTOR	RESISTOR RESISTOR
	A REF. PARTS NO.	805 3		302 2SA1015	Q 304 25A1015(Y,GR)	306 8550C	701	Q 703 25C1923	. ~	- 1	902	Q 903 8550C	906	907 2	800	911	R 104 QR0167J-332	106 QRD1613-8	107		122	123	R 124 GRD167J-552	205	206	208	R 221 QRD161J-820	223		303	304		312	R 313 QRD161J-120	318 QRD161J		R 324 QRD161J-102 R 324 QRD161J-103
	SUFFIX																																				
BLOCK NO MITTEL	RKS SUFFI	<u> </u>	3.3MF 20% 25V 150PF 5% 50V 820PF 10% 50V	20%	33MF 20% 50V	, % , %	10%			80PF	20% 1																P.B.A.M.P		EVR BUFF ICC=N2		The second secon			L301=B99 M010R			
OCK NO.	NAME REMARKS SUFFI	CD TRAY SWITCH PCB	20% 5% 5	47MF 20% 1	20%	150PF 5% 5	820PF 10%	4/MF 20% 1		680PF 10%	47MF 20% 1	SI DIODE	SI DIODE	ZENER DIODE	ST DIODE	DIODE	0100E	DIODE	SI DIODE	SI DIODE	SI DIODE	SI DIODE	SI DIODE	DIODE	SI DIODE		DCON SENSOR	C	C EVR BUFF I	J.C.	IC HEADBHONE ACK		INDUCTOR	301=B99 M		INDUCTOR	INDUCTOR
OCK NO.	NO. PARTS NAME REMARKS SUFFI	CONNECTOR CD TRAY	. 3.3MF 20% 150PF 5% 5 820PF 10%	E.CAPACITOR 47MF 20% 1	GENOLING SACRETCION COLONY SACROFORM CONTRACTION SAME SOM	QCS11HJ-151 C.CAPACITOR 150PF 5% 5	QCBB1HK-821Y C.CAPACITOR 820PF 10%	S M.CAPACITUR 4/MF 20% 3	GETC1HM-334ZN E.CAPACITOR .33MF 20%	-681Y C.CAPACITOR 680PF 10%	QET41AM-476 E.CAPACITOR 47MF 20% 1	155133	188133	MTZ5.1JAT-77 Z	188133	IN5391	903 INS391 DIODE	IN5391 DIC	905 155133 SI DIODE	155133 SI	155133 SI	SI	155133 SI	1N4001 DIC		VGL1185-001 LCD	DCON SENSOR	LA4597K IC	UPCIZZBHA IC EVR BUFF I	6GC-171H IC		AC SOCKET		VWZVO48-009 INDUCIOR L301=B99 M	INDUCTOR		705 VQP0018-100 INDUCTOR 706 VQP0018-100 INDUCTOR

CD amplifier board parts list

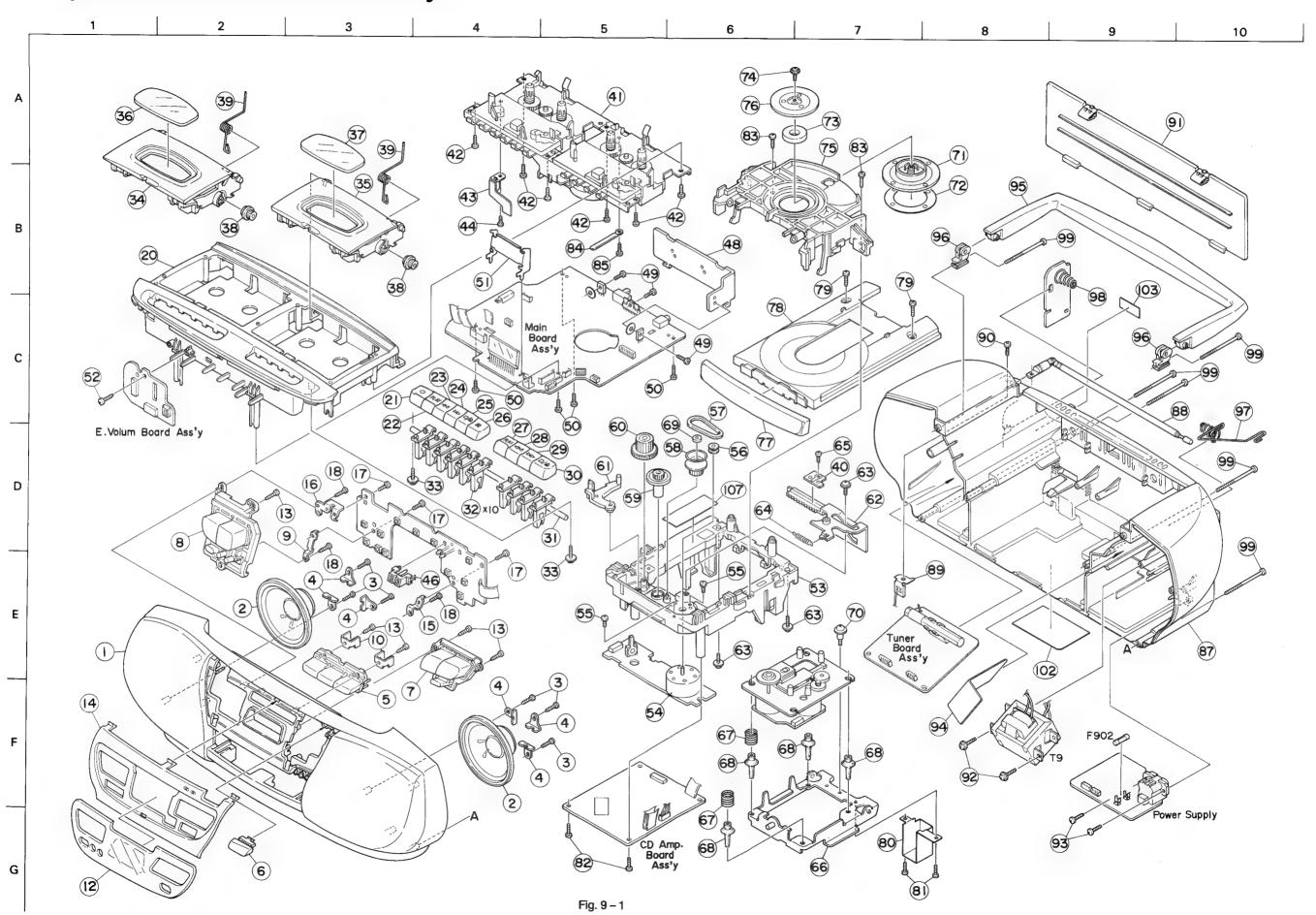
KEF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 501	QCBB1HK-82	C.CAPACITOR	820PF 10% 50V	
503	QCVB1CN-1	C.CAPACITOR	010MF 30%	
204	QEK41EM-1	E.CAPACITOR	20% 25	_
51	QCSB1HJ-3R	C.CAPACITOR	.9PF 10%	
515	QCS31HJ-270	C.CAPACITOR	7PF 5% 50	
51	QFV41HJ-10	FILM CAPACITOR	TOMF 5% 50	
514	QFN41HJ-4	M CAPACITOR	2 3	
77	WCBBIHK-55	C.CAPACITOR	30FF 10% 3	
777	ALCUTONIA C	TILM CAPACITOR	0 40 LEVAD	
20,00	GEVAINJ-13	E CABACTTOD	4 >	
200	OFF 7 15M-1	TO T		
200	OFT CARM 22	OCHICACA I	4 5	
7 6	OCVETAMINOS	CADACT-OR	4 6 0	
7 7 7	OCBB1HK-101	OCTIVE CONTROL	4 C	
24	QFV71H.1-103	FILM CAPACITOR	2 24	
7 7 5	0FV41H1-39	FILM CAPACITOR	. W	
375	OFTC1HM-225	F CAPACITOR	2 %	
24.	QFV81H.1-223	FILM CAPACITOR	14 S	
54	QETBIHM	1	2.2MF 20% 50V	
56	QET41AM-47	E.CAPACITOR	1 %	
56	QET41HM-47	E.CAPACITOR	0	
58	QET41AM-47	E.CAPACITOR	1 70	
0	OFT41AM-47	E CAPACITOR	2 10	
0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	001104040	• • •	
0	GEVATH I - 104 V		10MF AW AOV	
0	DEVA1H	FILM CAPACITOR	. 94	
. 0	OFT A 1 A		, 5	
100	OCC11H	CAPACTOR	2 2 2	
2 4	111000		1	
0 4	20011	ACT LONG C	3	
3	THE POST OF THE PO	000000000000000000000000000000000000000	2 2	
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0 4		10 F10 80 F1		
2 4	200000000000000000000000000000000000000	20012000		
2 4	SCOOTIN TO	201100000	207	
000	GCBBIHK-151	C.CAPACI LUR		
110	SCSIINJ-12	C.CAPACILOR	VOC % 147	
0	CBB1H	C.CAPACI LOR	7077	
0 1	ACBBINK-1517	C.CAPACIOR	130FF 10% 50V	
ρı	2 د	TOTAL CO.	40	
	2000			

E F.		PARTS NO.	PARTS NAME	BLOCK NO. 04	SUFFIX
502	100	A6398F			
601	_	C9284B			
604	•	A15218N	v		
501 2	~ ~	SA952(L,K)	TRANSISTOR		
1 5	1	SA1175	RANSISTO		
0110	ø	RD161J-12	ARBON RESISTO	120K 5X 1/6W	
22 0	G	RD161J-10	ARBON RESISTO	10K 5% 1/6	
70	0	RD161J-20	RBON RESIST	2.0K 5%	
2 2	3	RD161J-10	ARBON RESISTO	10 5% 1/6	
9 6	3 0	701013110	DISTRIBUTE NO SOLO	100 24 1	
3 6	3 0	101011	CESTSON NORSE	16 26 1/0	
10	9 0	07-11-10	ADBON RESISTO	101 34 1/0 2 0/ EW 1/	
4 N	9 0	RD167.1-33	ARRON RESISTO	3.38.58.1	
14	O	RD161J-47	(►	4.7K 5% 1/6	
15	Ø	RD161J-10	ARBON RESISTO	10K 5% 1/6	
16.0	Ø	RD161J-10	ARBON RESISTO	10K 5% 1/	
17 0	Ø	RD161J-20	ARBON RESISTO	2.0K 5% 1	
18	Ø	RD161J-33	ARBON RESISTO	3.3M 5% 1/	
2.1 0	a	RD161J-15	ARBON RESISTO	150K 5% 1/	
22	Ø	RD161J-39	ARBON RESISTO	3.9K 5% 1/	
23 0	Ø	RD161J-33	ARBON RESIS	330 5%	
24 0	Ø	RD161J-47	ARBON RESISTO	4.7K	
2 S Q	Ø	01611-47	ARBON RESISTO	4.7K S	
290	Ø	0167J-56	ARBON RESISTO	5.6K 5% 1/	
31 0	ā	01611-47	ARBON RESISTO	47K 5% 1/	
32	ø	01610-10	ARBON RESISTO	100K 5% 1	
8	3	0161J-15	ARBON RESISTO	15K 5% 1/6	
2 0	3	RD161J-12	ARBON RESISTO	12K 5% 1/6	
7 ! 7 !	3 (25-170108	ARBON RESISTO	3.5K 5% 1/	
9 0	3 (RD161J-47	ARBON RESISTO	47K 5K 1/	
3 (3 L 3 L	3 (77-110101	ARBON REVISED	22K 5X 1/0	
V 0	3 (01613-10	ARBON RESISTO	10K 5% 1/6	
9 0	3 0	101010	O FO FO BOOK	0 10 K 0 1/0	The second secon
٠ C	9 0	0111100	CHALARA MORGA	100K AK 11	
510	9	RD1611-22	ARBON RESISTO	22K 5X 1/6	
52	G	RD167J-56	ARBON RESISTO	5.6K 5% 1	
53	G	RD161J-82	ARBON RESISTO	820 5% 1/6W	
55	G	RD161J-39	ARBON RESISTO	3.9K 5% 1/6	
20	ø	RD161J-12	ARBON RESISTO	1.2M 5% 1/	
9	ø	RD167J-56	ARBON RESISTO	5.6K 5% 1/6	
2 1	3 (RD161J-10	ARBON RESISTO	1.0K 5% 1/	
5	3 0	RD161J-15	ARBON RESISTO	1.5K 5X 1/6	
4 1	3 (25-17-01-0X	AKBON KENING	5.5K 5X 1/	
0 1	3 (KU1611-68	ARBON RESISTO	68K 5X 1/6	
9 0	3 0	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	D-01018 2008	1 40 000	
2 0 0	3 G	r o	LOTOR NORTH	100 0% 1/0	
16	+-	RD161J-47	ARBON RESISTO	47K 5X 1/6	
-		RD161J-10	ARBON RESI	1.0K 5X 1/	
4		RD161J-10	ARBON RESISTO	10K 5% 1/6	
₹		RD161J-22	ARBON RESIST	220K 5% 1/	
14 0	Ø	01611-47	ARBON RESISTO	47K 5% 1/	

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	SUFFIX																																
BLOCK	R	5% 1/	0K 5K 1	7K 5K 17	7K 5K 1	80K 5%	80K 5%	00K 5%	00K 5%	0K 5% 1	OK 5% 1	80K 5%	80K 5%	00K %	00K 5X	0 K V V V V V V V V V V V V V V V V V V	S S S S S S S S S S S S S S S S S S S	200		200	2000	400000000000000000000000000000000000000	K 3	80 5%				The second secon					
	R'TS NAME	BON RESISTOR	ARBON RESISTOR	APPON RESISTOR	ARBON RESISTOR	AKBON KESISIOR	ARBON RESISTOR	ARBON RESISTOR	ADDON RESISTOR	ADDON DEGLESTOR	SOLUTION NOGON	DISTR NOOR	ARBON ARBIDIO	ARBON RESISTO	RESISTO	CERA LOCK																	
	PARTS N	1	KD161J-55	RD161J-67	RD161J-47	RD161J-18	RD161J-18	RD161J-10	RD161J-10	RD1613-10	RD161J-10	KU161J-18	RD161J-18	RD161J-10	RD161J-10	K0161J-10	01-110107	KU1013-08	701013-00	D 141 1-48	07-11-00	00170770		KD161J-68	VPA601-154A	A16.93M							
	F	R 615	0 1	2 6	6 6	99	99	99	99	8	9 1	0	9	9		0 ,	0	0 4	0 4	۲	0 4	0 7	0 4	ہ ہ	K 50				 				

(No. 1972) 55

9. Exploded View of Enclosure Assembly



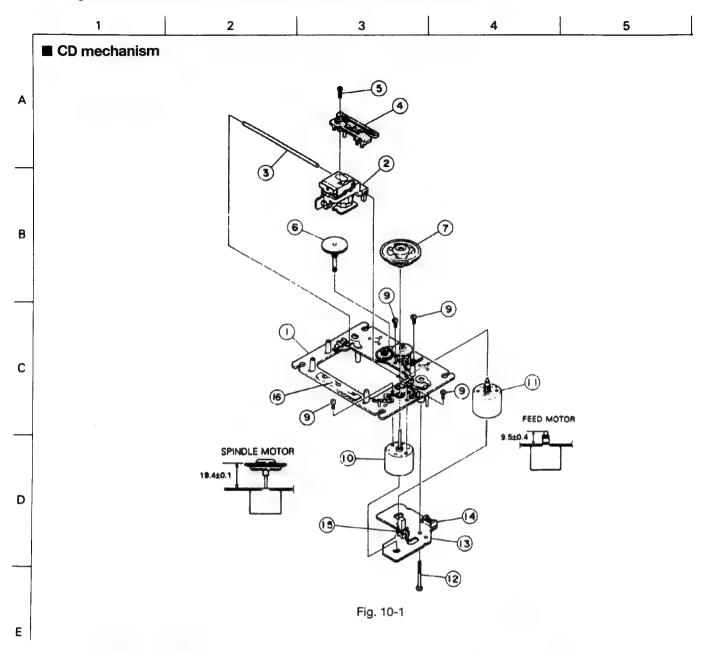
• Enclosure component parts list

				BLOCK NO. PILIPIP			
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
H	1	VJG1373-00A	FRONT C.ASS'Y		1		
П	2	VGS1001-034	SPEAKER		2		
1	3	SBSF3008Z	SCREW	FOR SPEAKER	6		
ı	4	VYH8087-001	SPEAKER CLAMP		6		
	5	VXP3740-001	CD SEARCH BUTTO		1		
H		VXP3743-001	POWER BUTTON	40010-205-00-01	1		
	7	VXP2118-001	FUNCTION BUTTON	40010 203 00 01	1		
	8	VXP2117-001	VOLUME BUTTON	+/- KNOB	1		
П	9	VKL7824-002	SW PWB BKT(D)	1.7	1		
Н		VKL7836-001	SW PCB SUPP.BKT		2		
Н	12		LCD LENS		1		
	13		SCREW	FOR BUTTON	5		
	14	VJD2463-001	FRONT COVER(B)	1.01. 501.01	1		
1	15		SW PWB BKT(A)	50010-131-00-01	1 1		
		VKL7817-001	SW PWB BKT(C)	30010-131-00-01	1 1		ļ
Н	17	SDSP3004Z	SCREW	FOR SW PWB + BK	3	· · ·	+
		SBSF2608Z	SCREW	FOR SW BKT+F.CA	3		
		VJD1204-003	TOP COVER	40010-451-03-01	1		
H	21		MECH BUTTON	40010-207-00-01	1		
			MECH BUTTON		1		ļ
Н		VXP2112-002		40010-208-00-01			
	23		MECH BUTTON		1		
	24		MECH BUTTON	40010-210-00-01	1		
1	25		MECH BUTTON	40010-211-00-01	1		
		VXP2112-006	MECH BUTTON	40010-212-00-01	1		
Н		VXP2112-007	MECH BUTTON	40010-213-00-01	1		
П		VXP2112-008	MECH BUTTON	40010-214-00-01	1		
П		VXP2112-009	MECH BUTTON	40010-215-00-01	1		
H		VXP2112-010	MECH BUTTON	40010-216-00-01	1		
		VYH7877-001	SHAFT	71200-010-01-00	1		
Ц		VYH8006-001	BUTTON LEVER	40010-652-00-01	10		
H		E65923-003	TAPPING SCREW		2		
1		VJT2361-001	CASSETTE DOOR(L	40010-301-00-01	1		
		VJT2362-001	CASSETTE DOOR(R	40010-302-00-01	1		
1		VJT3378-005	DOOR LENS(L)	40010-341-03-01	1		1
Щ		VJT3378-006	DOOR LENS(R)	40010-342-03-01	1		
		VYH8007-001	GEAR	40010-604-00-01	2		1
		VKW5213-002	DOOR SPRING(L)		2		
	40	VE406291-001	PLATE	FOR CAM	1		
	41		CASSETTE MECHA.		1		
Ц		SBSF3010Z	SCREW	FOR CASS.MECHA	6		
П	43	VKY4718-001	REC SPRING	71100-043-01-01	1		1
П	44		SCREW	FOR REC SPRING	1		
П		VKS5543-001	LED HOLDER	40010-501-00-01	1		
H	48	VYH3900-002	HEAT SINK	78000-007-02-00	1		1
Ш		SDSP3008Z	SCREW		3		
lΠ	50	SBSF3010Z	SCREW	MAIN+TOP COVER	4		
	51	VKL7813-001	LCD HOLDER	50010-136-00-01	1		
	52	SBSF3010Z	SCREW	E.VOL.PWB+T.COV	1		
 		VYH1255-001	LOADING BASE	40010-506-00-01	1		1
L		RF-500TB-12560	MOTOR		1		1
П		SPSK2640Z	MINI SCREW		2		
		VE75984-001	MOTOR PULLEY	40010-681-00-01	1		
		VE75950-002	BELT	77100-003-01-00	1		
		VE75985-001	GEAR(1)	40010-601-00-01	1		
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RIOCK	$N \cap$	M1MM	

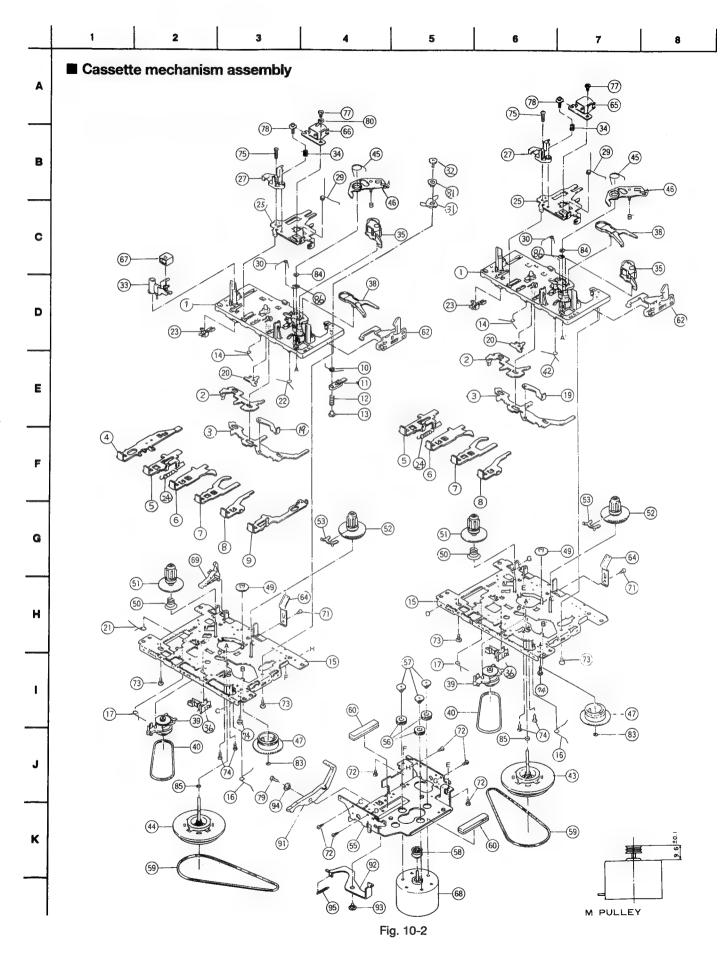
				BLUCK NU. PILIP			
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
H	59	VE75986-002	GEAR(2)	40010-602-00-01	1		
		VE75987-001	GEAR(3)	40010-603-00-01	1		
1		VE307162-001	LEVER	40010-651-00-01	1	[
		VE307162-001				İ	1
Н	-		CAM	40010-653-00-01	1		
\sqcup		E65923-003	TAPPING SCREW		3		
11	64	VYH7787-001	SPRING	71100-049-01-01	1		
\mathbf{I}	65	SBSF3008Z	SCREW	1	1		
	66	VE307179-002	E.BASE ASS'Y	50010-134-00-01	1		
11	67	E406871-001	SPRING	71100-047-01-01	2		
11	68	VE406294-002	INSULATOR	76402-002-01-01	4		1
H		VE60912-001	SPEED NUT	40010-441-00-01	1		
11	1	E406293-001	SPECIAL SCREW	40010 441 00 01	1 1		
1 1	,	VYH3901-001		/0010 FOE 00 01	1		
	71		CLAMPER	40010-505-00-01	1		
		VYH7315-005	PAD	76300-014-02-02	1		
\square		VYH7313-004	MAGNET		1		
П	74	GBSF2606Z	SCREW	FOR CLAMPER	1		
	75	VYH2314-001	CLAMPER BASE	40010-508-00-01	1		
П	76	VYH3764-001	CLAMPER PLATE	50010-101-00-01	1		
	77	VJD2462-005	CD FITTING		1		
		VYH1256-001	TRAY	40010-104-00-01	1		
H	79	SBSF3008Z	SCREW	FOR TRAY STOPPE	2		-
1 1		VMA4660-001	SHIELD CASE				
				50010-135-00-01	1		
H		SDSR2606Z	SCREW	SHIELD CASE+CD	2		
1		SBSF3008Z	SCREW		2		
\sqcup		SBSF3008Z	SCREW	CLAMPER BASE+L.	2		
	1	C1-PARTS808292	WIRE CLAMP		1		
		SDST3006Z	SCREW		1		1
	87	VJG1374-001	REAR CABINET	40010-102-00-01	1		
	88	215-021704-00	ANT. ROD	77001-002-01-02	1		
H	1	VKL7814-001	TERMINAL LUG	50010-103-00-01	1		
\vdash		SDSP3012N	SCREW	FOR ROD ANT.	1		+
		VJC2554-001	BATTERY COVER	40010-452-00-01	1		1
		GBSF3016Z	SCREW				
1 }				FOR TRANS	2		
li		SBSF3010Z	SCREW	FOR AC	2		
H		VYH8055-001	SHIELD PLATE		1		
		VJH2015-001	HANDLE	40010-391-00-01	1		
	96	VYH8008-001	HANDLE SUPPORTE	40010-503-00-01	2		
	97	VKW5212-001	BATTERY SPRING	71100-050-01-01	1		
	98	207-003305-00	BATTERY SPRING	71100-048-01-01	1		1
	99	SBSF3040Z	SCREW	FRONT+REAR	6		
\Box		VYN5197-002	NAME PLATE	77200-249-01-01	1	В	-
		VYN5197-005	NAME PLATE	" " " " " " " " " " " " " " " " " " "		E, EN	1
		VYN5197-008	NAME PLATE		1		
	107	E70891-001		1	1 .1	G	
			CLASS 1 LABEL		1		
H		E406709-001	LASER CAUTION	10.51	1		
		QMF51E2-2R5J1	FUSE	2.5A	1		
H	T 9	33657-021-01-06	POWER TRANS	V-2409T-B	1		
				1			
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10. Exploded View of Mechanism Assembly



CD mechanism parts list

				BLOCK NO. M3M	M		
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	MECHA.BASE ASSY		1		
	2	OPTIMA-6S	PICKUP ASS'Y		1		
	3	E406777-001	GAIDE SHAFT		1		
	4	E307746-001	CD RACK	İ	1		
1.1	5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
	6	EPB-003A	MECHA GIAR		1		
	7	E75807-301	CD T.TABLE ASSY		1		
	9	SDSP2003N	SCREW	FOR MOTOR	4		
	10	E406783-001	SP MOTOR	SPINDL MOTOR	1		
11	11	E406784-001SA	MOTOR ASS'Y	FEED MOTOR	1		
П	12	E75832-001	S.SCREW	M.REAF SWITCH	1		
	13	EMW10190-001	P_C_BOARD	LEAF SWITCH	1		
	14	EMV5109-006B	6P PLUG ASSY		1 1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		



• Cassette mechanism component parts list

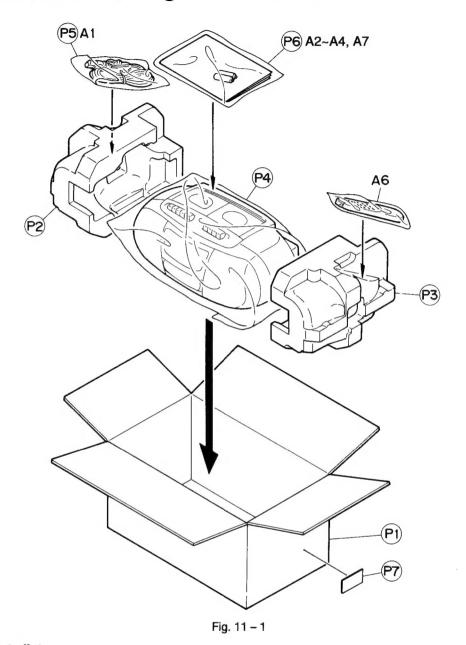
BLOCK NO. MISMMITTI

				BLOCK NO. MI3M	للبليك		
RE	ΣF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CL
	1	192114301ZT	BASE ASS'Y		2		1
	2	19211409T	SWITCH ACTUATOR		2		
	3	19211408T	LOCK CAM		2		
]	4	19211422T	BUTTON LEVER	REC	1		
	5	19211484T	BUTTON LEVER	PLAY	2		
	6	19211424T	BUTTON LEVER	REW	2	****	
			BUTTON LEVER	1.7	2		-
ĺ		19211426T	BUTTON LEVER	STOP	2		-
ļ	9	19211461T	BUTTON LEVER	PAUSE	2		
		19211413T	P CONT. SPRING	P CONTROL	1		1
		19211482T	PAUSE LEVER	T CONTROL	1 1		
		192114021 19211412T	SPRING	PAUSE LEVER	1		
		192114121 19211411T	PAUSE STOPPER	PAUSE LEVER	1		1
				BUTTON LEVED	1 1		
		19211414T	TORSION SPRING	BUTTON LEVER	2		ì
		192101501ZT	CHASSIS ASS'Y	ACTUATOR OFFICE	2		
		19211416T	TORSION SPRING	ACTUATOR SPRING	2		
		19211417T	TORSION SPRING	LEVER SPRING	2		
		182101159T	E.KICK LEVER		2		
		19211420T	STOPPER		2		
		19211421T	TORSION SPRING	REC BUTTON	1		
		19211415T	TORSION SPRING	BUTTON LEVER	1		
	23	MSW-1541T	LEAF SWITCH	MSW-1541T	2		
	24	18210150T	PLAY BUTTON LEV	PLAY BUTTON	2		
	25	19210311T	HEAD PANEL		2		
	27	19210304AT	HEAD BASE		2		
	29	19210309T	PANEL P SPRING		2		
	30	19211418AT	SPRING		2		
	31	19211434T	P.ROLLER ARM		1		
	32	99992041T	SPECIAL SCREW	M2 X 3	1		
		19210305T	MAGNET HEAD ARM		1		
		18210307T	AZIMUTH SPRING		2		
		192104309T	P.ROLL. ARM ASY	PINCH ROLLER	2		
		640101161T	LEAF SWITCH	MSW-17820MVD0	5		
		19212604TT	SENSING LEVER	170201100	2		
	- 1	192107308T	RF CLUTCH ASS'Y		2		1
		18210711T	RF.BELT		2		+-
		19211433T	TORSION SPRING	BUTTON L.S.(C)	1		İ
		192114331 192109304ZT	FLYWHEEL ASS'Y	BUTTON L.3.(C)			ł
			FLYWHEEL ASS'Y		1		
		192109303ZT		CEAR DIATE	1		1
		19212605T	TORSION SPRING	GEAR PLATE	2		-
		192126502ZT	GEAR PLATE ASSY		2		
		19212602T	CAM GEAR		2		
		18211070T	F.FORWARD GEAR		2		
		18211099T	BACK TENSION SP	BACK TENSION	2		
		192105304T	S. REEL ASS'Y	SUPPLY	2		
		192105303T	T. REEL ASS'Y	TAKE UP	2		
		19210506T	SENSOR		2		
		19211211T	MOTOR BRACKET		1		
		18211266T	MOTOR RUBBER		3		
	57	18511418T	COLLAR SCREW		3 3 1		
	58	19211213T	MOTOR PULLEY				
	59	19210924T	MAIN BELT	1	2		1
	60	19211212T	MAT		2		
		19211301T	EJ. SLIDE LEVER	1	2		1

BLOCK NO. M3MM

A REF. PARTS NO. PARTS NAME REMARKS QTY SUFFIX 64 18291001T
65 MS18R-AKON1 PB HEAD B MECHA 1 66 MS15R-AA2N1 REC/PB HEAD A MECHA 1 67 PH-K380-MS1-6A E HEAD E EG-530YD-9BH 1 69 18211069T REC.SAF.LEVER 1 71 91790000T TAPPING SCREW M2 X 3 2 72 91800000T SCREW M2 X 4 6 73 96790000T TAPPING SCREW M2 X 5 4 74 99991809T SPECIAL SCREW M2 X 5.5 6 75 90040000T SCREW(M2 X 6) M2 X 6 2 77 91150000T SCREW(M2 X 3) M2 X 3 2 78 99220000T SCREW(M2 X 3) M2 X 3 2 78 99220000T SCREW(M2 X 7) M2 X 7 2 79 9P0420061T SCREW(M2 X 7) M2 X 7 2 79 9P0420061T SCREW M2 X 6 1 80 94800000T LUG 1 81 19211437T PARM COLLAR 12 1 2 2 2 3 3 3 4 2 2 3 3 4 2 2 3 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3
65 MS18R-AKON1 PB HEAD B MECHA 1 66 MS15R-AA2N1 REC/PB HEAD A MECHA 1 67 PH-K380-MS1-6A E HEAD E EG-530YD-9BH 1 69 18211069T REC.SAF.LEVER 1 71 91790000T TAPPING SCREW M2 X 3 2 72 91800000T SCREW M2 X 4 6 73 96790000T TAPPING SCREW M2 X 5 4 74 99991809T SPECIAL SCREW M2 X 5.5 6 75 90040000T SCREW(M2 X 6) M2 X 6 2 77 91150000T SCREW(M2 X 3) M2 X 3 2 78 99220000T SCREW(M2 X 3) M2 X 3 2 78 99220000T SCREW(M2 X 7) M2 X 7 2 79 9P0420061T SCREW(M2 X 7) M2 X 7 2 79 9P0420061T SCREW M2 X 6 1 80 94800000T LUG 1 81 19211437T PARM COLLAR 12 1 2 2 2 3 3 3 4 2 2 3 3 4 2 2 3 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3
66 MS15R-AA2N1
67 PH-K380-MS1-6A E HEAD 68 60020222T MOTOR EG-530YD-9BH 1 69 18211069T REC.SAF.LEVER 71 91790000T TAPPING SCREW M2 X 3 2 72 91800000T SCREW M2 X 4 66 73 96790000T TAPPING SCREW M2 X 5 4 74 99991809T SPECIAL SCREW M2 X 4.5 6 75 90040000T SCREW(M2 X 6) M2 X 6 2 77 91150000T SCREW(M2 X 3) M2 X 3 2 78 99220000T SCREW(M2 X 3) M2 X 3 2 78 99220000T SCREW(M2 X 7) M2 X 7 2 79 9P0420061T SCREW(M2 X 7) M2 X 7 2 79 9P0420061T SCREW M2 X 6 1 80 94800000T LUG
68 60020222T
69 18211069T
71 91790000T
72 91800000T
73 96790000T TAPPING SCREW M2 X 5 4 74 99991809T SPECIAL SCREW M2 X 4.5 6 75 90040000T SCREW(M2 X 6) M2 X 6 2 77 91150000T SCREW(M2 X 3) M2 X 3 2 78 99220000T SCREW(M2 X 7) M2 X 7 2 79 9P0420061T SCREW M2 X 6 1 80 94800000T LUG 1 81 19211437T P ARM COLLAR 1 83 94220000T P.WASHER 1.2X3.8X0.3 2 84 99990313T POLY.CUT WASHER 1.45X3.8X0.5 2 85 97860000T POLY WASHER 2X3.5X0.3 2 86 99990003T POLYSLIDER WAS. 2.1X4X0.13 2 91 19211209T P.KICK LEVER(B) 1 92 18211268T P.KICK LEVER(B) 1 93 18211223T COLLAR SCREW 1 94 18211265T COLLAR (B) P KICK LEVER 1
74 99991809T SPECIAL SCREW M2 X 4.5 6 75 90040000T SCREW(M2 X 6) M2 X 6 27 91150000T SCREW(M2 X 3) M2 X 3 78 99220000T SCREW(M2 X 7) M2 X 7 29 9P0420061T SCREW M2 X 6 80 94800000T LUG 81 19211437T P ARM COLLAR 83 94220000T P.WASHER 1.2X3.8X0.3 84 99990313T POLY.CUT WASHER 1.45X3.8X0.5 85 97860000T POLY WASHER 2X3.5X0.3 86 99990003T POLYSLIDER WAS. 2.1X4X0.13 91 19211209T P.KICK LEVER(B) 92 18211268T P.KICK LEVER(B) 93 18211223T COLLAR SCREW 94 18211265T COLLAR (B) P KICK LEVER
75 90040000T
77 91150000T
78 99220000T
79 9P0420061T SCREW M2 X 6 1 80 94800000T LUG 1 81 19211437T P ARM COLLAR 1 83 94220000T P.WASHER 1.2X3.8X0.3 2 84 99990313T POLY.CUT WASHER 1.45X3.8X0.5 2 85 97860000T POLY WASHER 2X3.5X0.3 2 86 99990003T POLYSLIDER WAS. 2.1X4X0.13 2 91 19211209T P.KICK LEVER(B) 1 92 18211268T P.KICK LEVER 1 93 18211223T COLLAR SCREW 1 94 18211265T COLLAR (B) P KICK LEVER 1
80 94800000T
81 19211437T
83 94220000T
84 99990313T
85 97860000T
86 99990003T POLYSLIDER WAS. 2.1X4X0.13 2 91 19211209T P.KICK LEVER(B) 92 18211268T P.KICK LEVER 93 18211223T COLLAR SCREW 194 18211265T COLLAR (B) P KICK LEVER 1
91 19211209T
92 18211268T
93 18211223T COLLAR SCREW 1 1 94 18211265T COLLAR (B) P KICK LEVER 1
94 18211265T COLLAR (B) P KICK LEVER 1
TOTAL TOTAL

11. Illustration of Packing and Parts List



Packing parts list

BLOCK NO.	M4MM
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A	RE	F.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
П	P	1	VPC5197-002	CARTON	50010-562-05-01	1		
	P	2	VPH1678-001	CUSHION (L)	50010-601-00-01	1		
П	P	3	VPH1678-002	CUSHION (R)	50010-602-00-01	1		
	Р	4	VPE3020-028	POLY BAG	74038-643-03-01	1		
Ш	P	5	QPGA012-02505	POLY BAG	74009-233-04-00	1		
П	Р	6	VPE3026-004	POLY BAG	74023-353-07-00	1		
П	P	7		CARTON LABEL	77200-257-01-01	1		
Ш								
					4			
Ш								

Accessories

				
DI	OCV	MIO	M4MM	1 1 1 1
-DL	UUN	NO.	in stank ale at	1 1 1 1

QTY 1	SUFFIX	CLR
1	В	
1		
1	E.EN.G	
1	E	
1	В	
1	EN	
1	E,EN,G	
1	В	
1	G	
1	В	
1	В	
1		
1]	1
	1 1 1 1 1 1 1 1 1 1	1 E 1 B 1 EN 1 E, EN, G 1 B 1 G 1 B



